abcam

Product datasheet

Anti-WDR5 antibody [EPR27033-6] ab307664

重组 RabMAb

18 图像

概述

产品名称	Anti-WDR5抗体[EPR27033-6]
描述	兔单克隆抗体[EPR27033-6] to WDR5
宿主	Rabbit
特异性	Unsuitable for rat IHC-FR
经测试应用	**适用于:** Flow Cyt (Intra), IHC-P, WB, ICC/IF, IP, IHC-Fr **不适用于:** ChIP
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa transfected with scrambled siRNA control, HeLa transfected with siRNA specifically targeting WDR5, U937, Saos-2, NIH/3T3, Human spleen, Mouse spleen and Rat spleen lysates. IHC-P: Human colon, Human tonsil, Mouse colon, Mouse spleen, Mouse breast cancer, Rat colon and Rat spleen tissues IHC-Fr: Mouse spleen tissue. ICC: HeLa and NIH/3T3 cells Flow Cyt (Intra): HeLa and NIH/3T3 cells IP: U937 and NIH/3T3 cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS

纯度	Protein A purified
克隆	单克隆
克隆编号	EPR27033-6
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab307664于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/50 - 1/500.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/1000. Predicted molecular weight: 37 kDa.
ICC/IF		1/500.
IP		1/30.
IHC-Fr		1/50.

应用说明 Is unsuitable for ChIP.

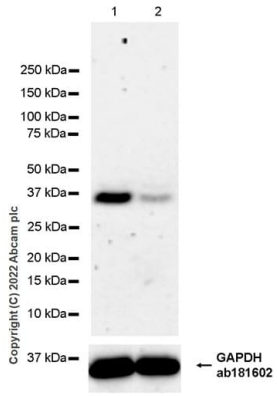
靶标

功能 Contributes to histone modification. May position the N-terminus of histone H3 for efficient trimethylation at 'Lys-4'. As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues. May regulate osteoblasts differentiation.

序列相似性 Belongs to the WD repeat WDR5/wds family.
Contains 7 WD repeats.

细胞定位 Nucleus.

图片



Western blot - Anti-WDR5 antibody [EPR27033-6] (ab307664)

All lanes : Anti-WDR5 antibody [EPR27033-6] (ab307664) at 1/1000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell) transfected with scrambled siRNA control whole cell lysate 20 µg
Lane 2 : HeLa transfected with siRNA specifically targeting WDR5 whole cell lysate 20 µg

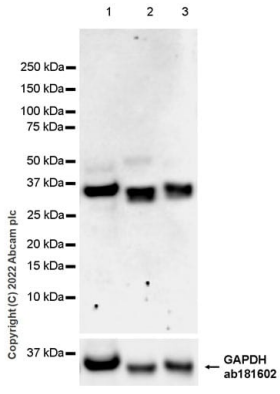
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/100000 dilution

Predicted band size: 37 kDa
Observed band size: 37 kDa

Exposure time: 180 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Exposure time: 180 seconds



Western blot - Anti-WDR5 antibody [EPR27033-6] (ab307664)

All lanes : Anti-WDR5 antibody [EPR27033-6] (ab307664) at 1/1000 dilution

Lane 1 : Human spleen tissue lysate 20 µg
Lane 2 : Mouse spleen tissue lysate 20 µg
Lane 3 : Rat spleen tissue lysate 20 µg

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/100000 dilution

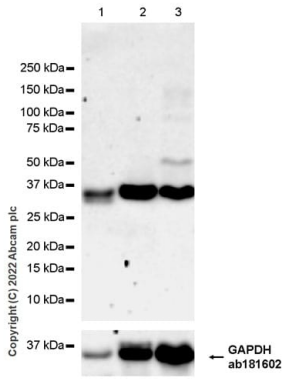
Predicted band size: 37 kDa
Observed band size: 37 kDa

Exposure time: 180 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST

This blot was developed using a high sensitivity ECL substrate.

Exposure time: 180 seconds



Western blot - Anti-WDR5 antibody [EPR27033-6] (ab307664)

All lanes : Anti-WDR5 antibody [EPR27033-6] (ab307664) at 1/1000 dilution

Lane 1 : U937 (human histiocytic lymphoma monocyte) whole cell lysate
Lane 2 : Saos-2 (human osteosarcoma epithelial) whole cell lysate
Lane 3 : NIH/3T3 (mouse embryonic fibroblast) whole cell lysate

Lysates/proteins at 20 µg per lane.

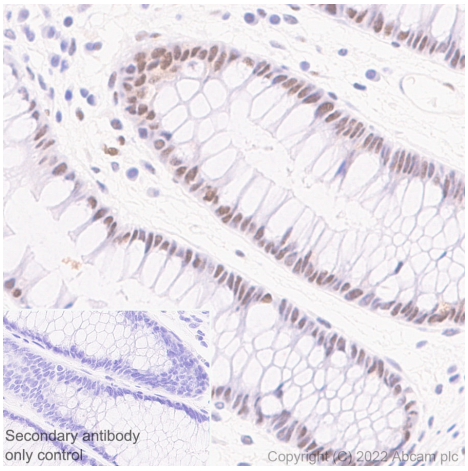
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/100000 dilution

Predicted band size: 37 kDa
Observed band size: 37 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

This blot was developed using a high sensitivity ECL substrate.

Exposure time: 180 seconds

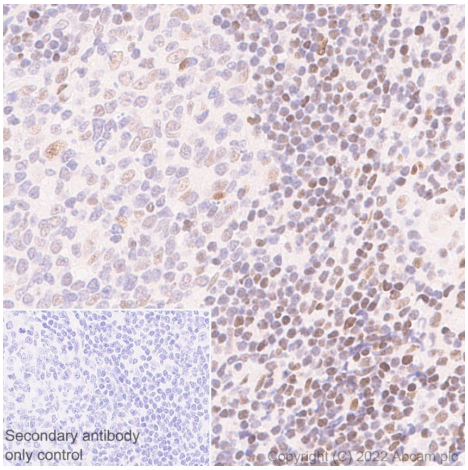


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-WDR5 antibody [EPR27033-6] (ab307664)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling WDR5 with ab307664 at 1/100 (5.38 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Nuclear staining on human colon (PMID: 28300833).The section was incubated with ab307664 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins

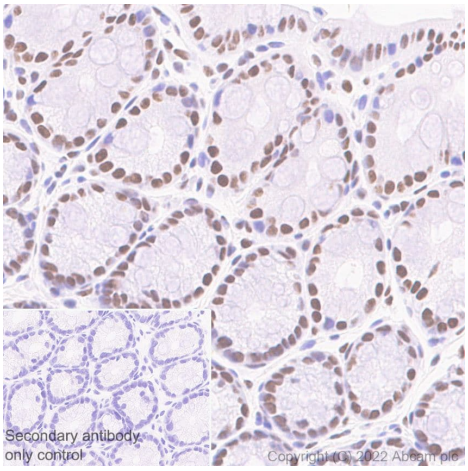


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-WDR5 antibody [EPR27033-6] (ab307664)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling WDR5 with ab307664 at 1/100 (5.38 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Nuclear staining on human tonsil.The section was incubated with ab307664 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins

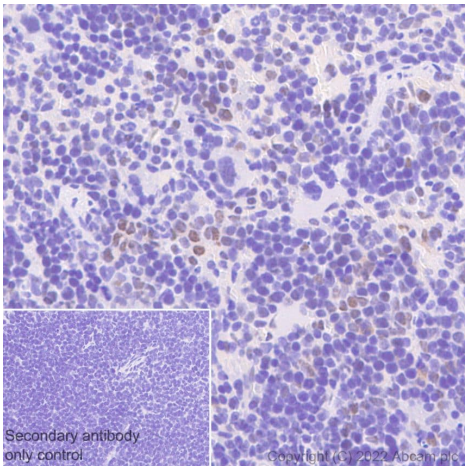


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-WDR5 antibody [EPR27033-6] (ab307664)

Immunohistochemical analysis of paraffin-embedded Mouse colon tissue labeling WDR5 with ab307664 at 1/500 (1.076 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Nuclear staining on mouse colon.The section was incubated with ab307664 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins

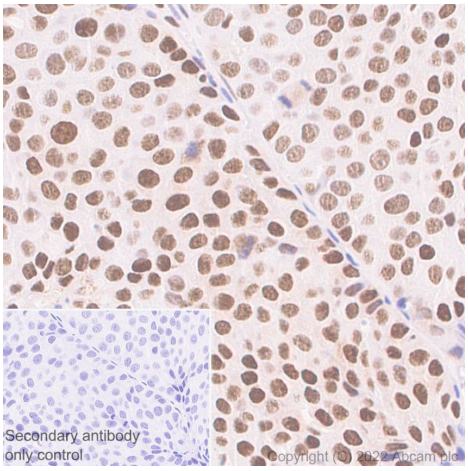


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-WDR5 antibody [EPR27033-6] (ab307664)

Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling WDR5 with ab307664 at 1/500 (1.076 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Nuclear staining on mouse spleen.The section was incubated with ab307664 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins

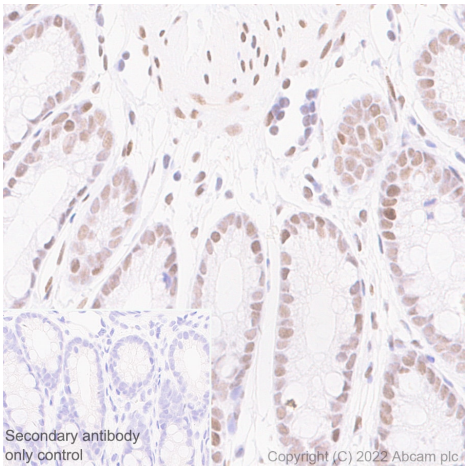


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-WDR5 antibody [EPR27033-6] (ab307664)

Immunohistochemical analysis of paraffin-embedded Mouse breast cancer tissue labeling WDR5 with ab307664 at 1/500 (1.076 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Nuclear staining on mouse breast cancer. The section was incubated with ab307664 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins

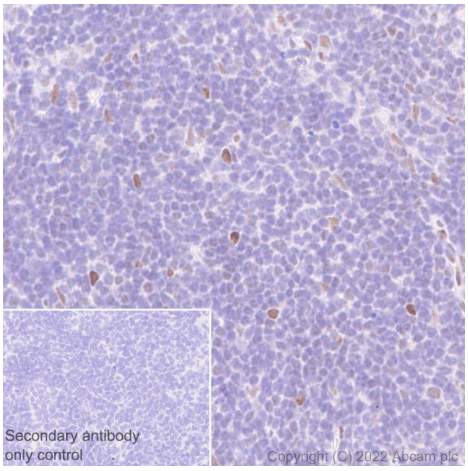


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-WDR5 antibody [EPR27033-6] (ab307664)

Immunohistochemical analysis of paraffin-embedded Rat colon tissue labeling WDR5 with ab307664 at 1/500 (1.076 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Nuclear staining on rat colon.The section was incubated with ab307664 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins

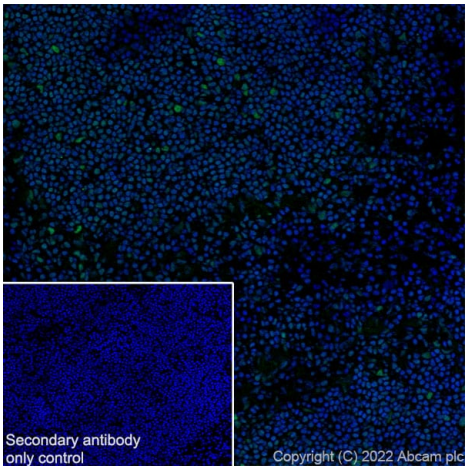


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-WDR5 antibody [EPR27033-6] (ab307664)

Immunohistochemical analysis of paraffin-embedded Rat spleen tissue labeling WDR5 with ab307664 at 1/500 (1.076 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Nuclear staining on rat spleen.The section was incubated with ab307664 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection)

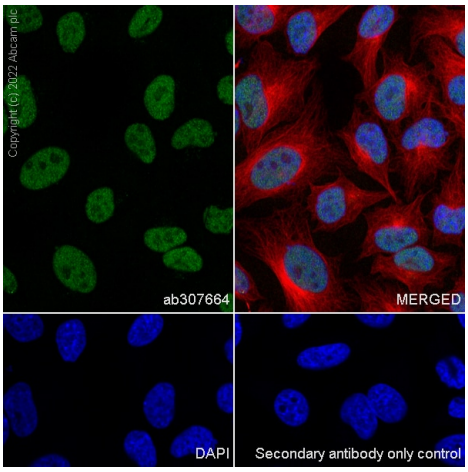
Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins



Immunohistochemistry (Frozen sections) - Anti-WDR5 antibody [EPR27033-6] (ab307664)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse spleen (fresh) tissue labeling WDR5 with ab307664 at 1/50 (10.76 ug/ml) dilution followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/mL) dilution (Green). Confocal image showing positive staining on mouse spleen. The nuclear counterstain was DAPI (Blue). The section was incubated with ab307664 for 60 mins at room temperature. The section was then mounted using Fluoromount®.The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). is observed. The nuclear counterstain was DAPI (Blue).

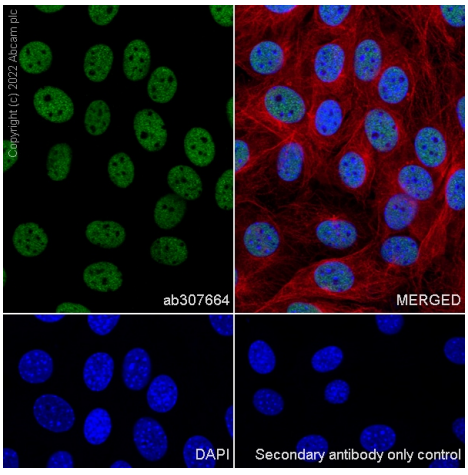
Secondary antibody control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbedat 1/1000 (2 ug/mL) dilution.



Immunocytochemistry/ Immunofluorescence - Anti-WDR5 antibody [EPR27033-6] (ab307664)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HeLa (human cervical adenocarcinoma epithelial cell) cells labelling WDR5 with ab307664 at 1/500 (1.076 ug/ml) dilution, followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 ug/ml) dilution (Green). Confocal image showing nuclear staining in HeLa cell line. Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8). is observed. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5ug/ml) dilution (Red). The Nuclear counterstain was DAPI (Blue).

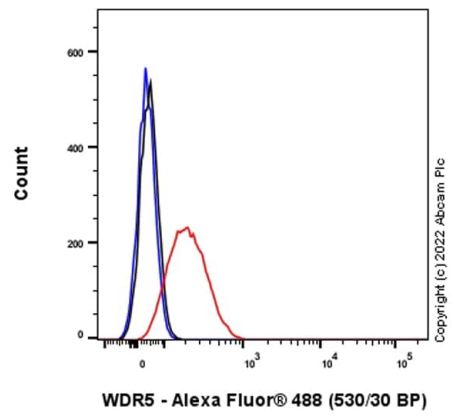
Secondary antibody only control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/ml dilution.



Immunocytochemistry/ Immunofluorescence - Anti-WDR5 antibody [EPR27033-6] (ab307664)

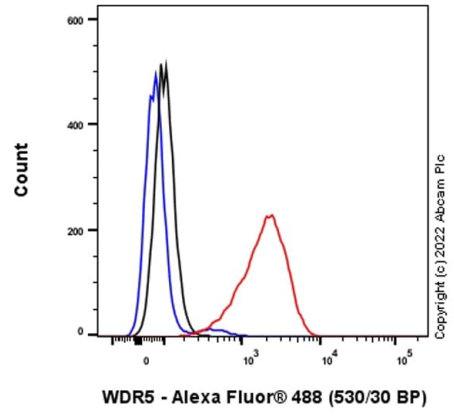
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized NIH/3T3 (mouse embryonic fibroblast) cells labelling WDR5 with ab307664 at 1/500 (1.076 ug/ml) dilution, followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 ug/ml) dilution (Green). Confocal image showing nuclear staining in NIH/3T3 cell line. Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8). is observed. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5ug/ml) dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/ml dilution.



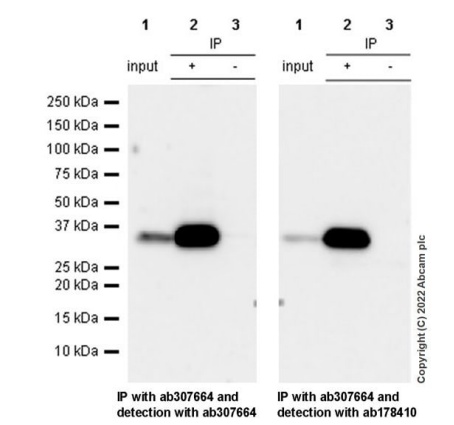
Flow Cytometry (Intracellular) - Anti-WDR5 antibody [EPR27033-6] (ab307664)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cells labelling WDR5 with ab307664 at 1/50 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, **ab150081**) at 1/2000 dilution was used as the secondary antibody.



Flow Cytometry (Intracellular) - Anti-WDR5 antibody [EPR27033-6] (ab307664)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized NIH/3T3 (mouse embryonic fibroblast) cells labelling WDR5 with ab307664 at 1/500 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, **ab150081**) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-WDR5 antibody [EPR27033-6] (ab307664)

WDR5 was immunoprecipitated from 0.35 mg U937 (human histiocytic lymphoma monocyte) whole cell lysate 10 ug with ab307664 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab307664 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP) (**ab131366**) was used at 1/5000 dilution.
Lane 1: U937 (human histiocytic lymphoma monocyte) whole cell lysate 10 ug

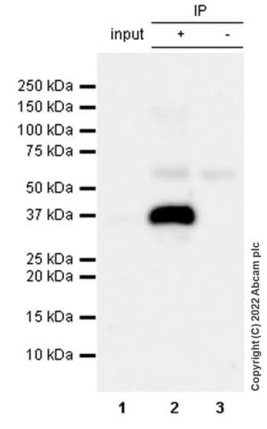
Lane 2: abab307664 IP in U937 whole cell lysate

Lane 3:Rabbit monoclonal IgG (**ab172730**) instead of ab307664 in U937 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 24 seconds

The IP experiment was performed by ab307664 using U937 cells. On the left the IP blot was probed with ab307664 and on the right the blot was probed by another anti-WDR5 antibody (**ab178410**) (1:1000 dilution).



Immunoprecipitation - Anti-WDR5 antibody [EPR27033-6] (ab307664)

WDR5 was immunoprecipitated from 0.35 mg NIH/3T3 (mouse embryonic fibroblast) whole cell lysate 10 ug with ab307664 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab307664 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(**ab131366**) was used at 1/5000 dilution.

Lane 1: NIH/3T3 (mouse embryonic fibroblast) whole cell lysate 10 ug

Lane 2: abab307664 IP in NIH/3T3 whole cell lysate 10 ug

Lane 3:Rabbit monoclonal IgG (**ab172730**) instead of ab307664 in NIH/3T3 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 8 seconds

Anti-WDR5 antibody [EPR27033-6] (ab307664)

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