abcam

Product datasheet

Anti-CD90 / Thy1 antibody [EPR28145-53] ab307736

敲除验证 重组 RabMAb

2 References 12 图像

概述

产品名称	Anti-CD90 / Thy1抗体[EPR28145-53]
描述	兔单克隆抗体[EPR28145-53] to CD90 / Thy1
宿主	Rabbit
经测试应用	**适用于:** WB, ICC/IF, Flow Cyt, IP **不适用于:** IHC-P
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: U-2 OS, HuT-78, PC-12 and EL4 whole cell lysate. Human spleen tissue lysate. Mouse and rat brain tissue lysate. ICC/IF: U-2 OS, EL4 and PC-12 cells. Flow Cyt: Mouse peripheral blood mononuclear cells. U-2 OS and PC-12 cells. IP: HuT-78 and U-2 OS whole cell lysate.
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: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR28145-53

同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab307736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。

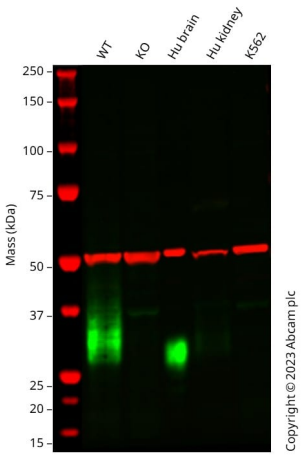
应用	Ab评论	说明
WB		1/1000 - 1/5000. Predicted molecular weight: 17 kDa. Observed molecular weight may vary depending on the glycosylation level of the target.
ICC/IF		1/250 - 1/1000.
Flow Cyt		1/500.
IP		1/30.

应用说明	Is unsuitable for IHC-P.

靶标

功能	May play a role in cell-cell or cell-ligand interactions during synaptogenesis and other events in the brain.
序列相似性	Contains 1 Ig-like V-type (immunoglobulin-like) domain.
细胞定位	Cell membrane.

图片



Western blot - Anti-CD90 / Thy1 antibody [EPR28145-53] (ab307736)

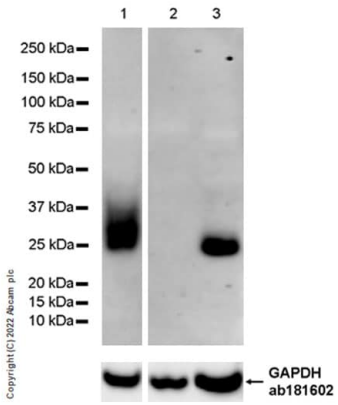
All lanes : Anti-CD90 / Thy1 antibody [EPR28145-53] (ab307736) at 1/5000 dilution

Lane 1 : Wild-type U-2 OS cell lysate at 30 µg
Lane 2 : THY1 knockout U-2 OS cell lysate at 30 µg
Lane 3 : Human brain cell lysate at 2 µg
Lane 4 : Human kidney cell lysate at 20 µg
Lane 5 : K562 cell lysate at 30 µg

Performed under reducing conditions.

Predicted band size: 17 kDa
Observed band size: 25-37 kDa

Western blot: Anti-THY1 antibody [EPR28145-53] (ab307736) staining at 1/5000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] (**ab7291**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab307736 was shown to bind specifically to THY1. A band was observed at 25-37 kDa in wild-type U-2 OS cell lysates with no signal observed at this size in THY1 knockout cell line **ab262490** (knockout cell lysate **ab263925**). To generate this image, wild-type and THY1 knockout U-2 OS cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-CD90 / Thy1 antibody [EPR28145-53] (ab307736)

All lanes : Anti-CD90 / Thy1 antibody [EPR28145-53] (ab307736) at 1/1000 dilution

Lane 1 : U-2 OS (human bone osteosarcoma epithelial cell) whole cell lysate
Lane 2 : K-562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate
Lane 3 : EL4 (mouse lymphoma t lymphocyte) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/20000 dilution

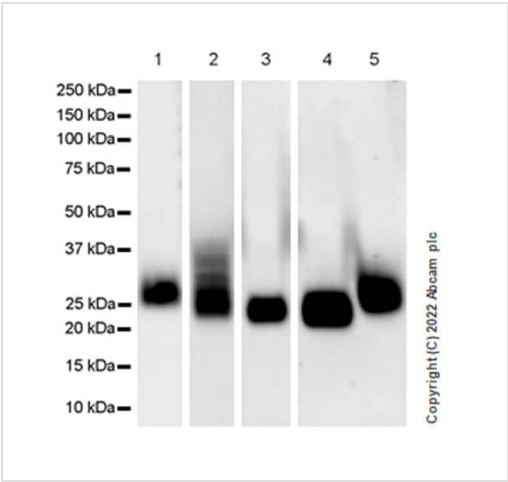
Predicted band size: 17 kDa
Observed band size: 25-37 kDa

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

Negative control: K-562 (PMID: 7683034).

The molecular weight observed is consistent with what has been described in the literature (PMID: 16770003).

In Western blot, anti-GAPDH antibody (**ab181602**) loading control staining at 1/200, 000 dilution.



Western blot - Anti-CD90 / Thy1 antibody [EPR28145-53] (ab307736)

This blot was developed using a high sensitivity ECL substrate.

Exposure time: 103 seconds.

All lanes : Anti-CD90 / Thy1 antibody [EPR28145-53] (ab307736) at 1/1000 dilution

Lane 1 : Human spleen tissue lysate
Lane 2 : HuT-78 (human sezary syndrome cutaneous t lymphocyte) whole cell lysate
Lane 3 : Mouse brain tissue lysate
Lane 4 : Rat brain tissue lysate
Lane 5 : PC-12 (rat adrenal gland pheochromocytoma cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

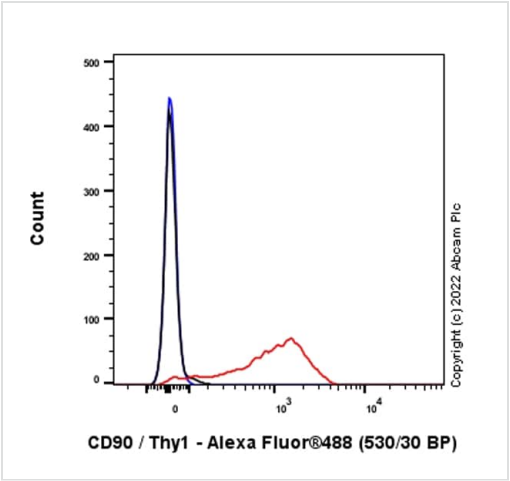
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/20000 dilution

Predicted band size: 17 kDa

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

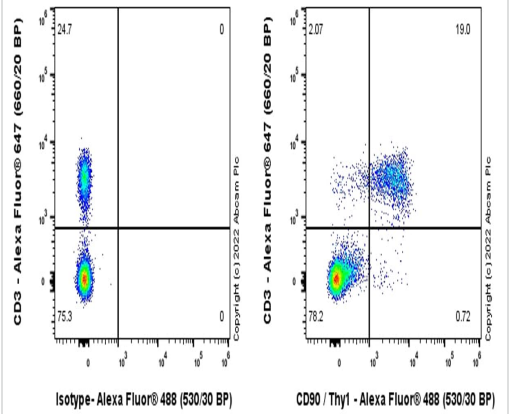
The molecular weight observed is consistent with what has been described in the literature (PMID: 16770003) and due to the highglycosylation of the protein.

Exposure time: 48 seconds.



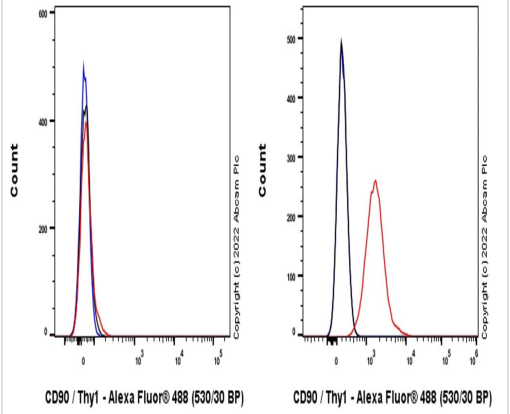
Flow Cytometry - Anti-CD90 / Thy1 antibody [EPR28145-53] (ab307736)

Flow cytometric analysis of PC-12 (rat adrenal gland pheochromocytoma) cells labeling CD90 / Thy1 with ab307736 at 1/500 dilution (0.1µg) (Red) compared with a Rabbit monoclonal IgG isotype control (**ab172730**) (Black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat Anti-Rabbit IgG (Alexa Fluor® 488, **ab150081**) at 1/2000 dilution was used as the secondary antibody.
Gated on viable cells.



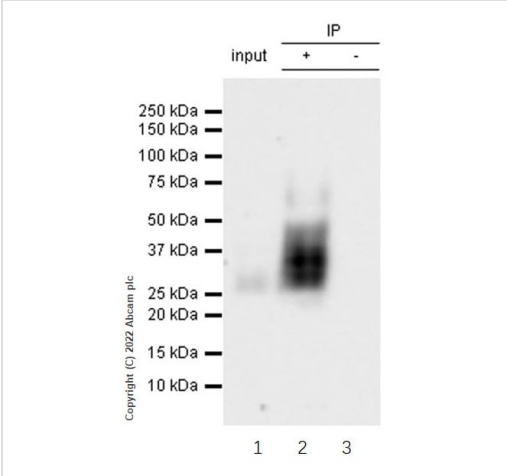
Flow Cytometry - Anti-CD90 / Thy1 antibody [EPR28145-53] (ab307736)

Flow cytometric analysis of Rabbit monoclonal IgG isotype control (**ab172730**) (Left panel) compared to mouse peripheral blood mononuclear cell (PBMC) (Right panel) labeling CD90 / Thy1 with ab307736 at 1/500 dilution (0.1 µg). Goat Anti-Rabbit IgG (Alexa Fluor® 488, **ab150081**) at 1/2000 dilution was used as the secondary antibody.
Cells were stained with rabbit IgG or ab307736 then stained with anti-CD3 conjugated to Alexa Fluor® 647.
Gated on viable cells.



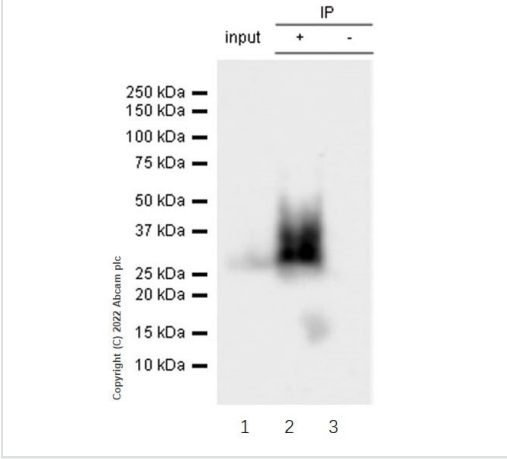
Flow Cytometry - Anti-CD90 / Thy1 antibody [EPR28145-53] (ab307736)

Flow cytometric analysis of K-562 (human chronic myelogenous leukemia lymphoblast) (Left panel) compared to U-2 OS (human bone osteosarcoma epithelial cell) (Right panel) labeling CD90 / Thy1 with ab307736 at 1/500 dilution (0.1 µg) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat Anti-Rabbit IgG (Alexa Fluor® 488, **ab150081**) at 1/2000 dilution was used as the secondary antibody.
Negative control: K-562.
Gated on viable cells.



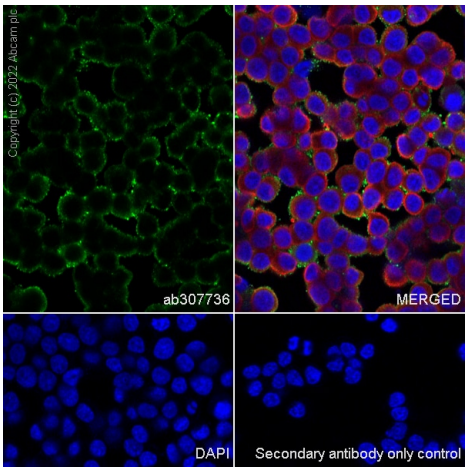
Immunoprecipitation - Anti-CD90 / Thy1 antibody [EPR28145-53] (ab307736)

CD90 / Thy1 was immunoprecipitated from 0.35 mg HuT-78 (human sezary syndrome cutaneous t lymphocyte) whole cell lysate 10 µg with ab307736 at 1/30 dilution (2 µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab307736 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(**ab131366**) was used at 1/5000 dilution.
Lane 1: HuT-78 whole cell lysate 10 µg
Lane 2: ab307736 IP in HuT-78 whole cell lysate
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab307736 in HuT-78 whole cell lysate
Blocking and dilution buffer and concentration: 5% NFDM/TBST.
Exposure time: 15 seconds.
The molecular weight observed is consistent with what has been described in the literature (PMID: 16770003) and due to the high glycosylation of the protein.



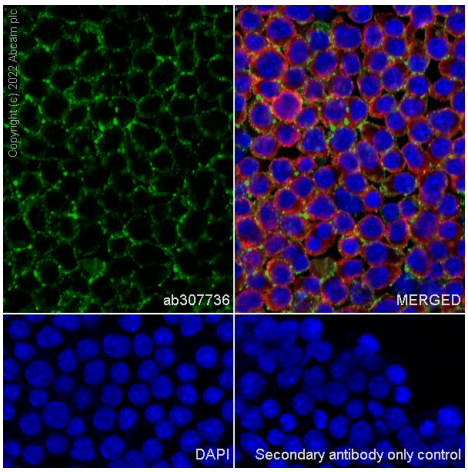
Immunoprecipitation - Anti-CD90 / Thy1 antibody [EPR28145-53] (ab307736)

CD90 / Thy1 was immunoprecipitated from 0.35 mg U-2 OS (human bone osteosarcoma epithelial cell) whole cell lysate 10 µg with ab307736 at 1/30 dilution (2 µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab307736 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP) (**ab131366**) was used at 1/5000 dilution.
Lane 1: U-2 OS whole cell lysate 10 µg
Lane 2: ab307736 IP in U-2 OS whole cell lysate
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab307736 in HU-2 OS whole cell lysate
Blocking and dilution buffer and concentration: 5% NFDM/TBST.
Exposure time: 15 seconds.
The molecular weight observed is consistent with what has been described in the literature (PMID: 16770003) and due to the high glycosylation of the protein.



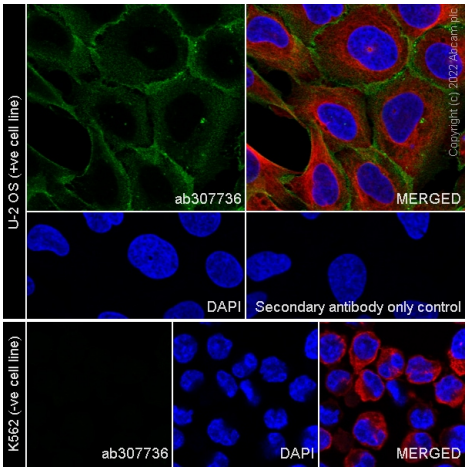
Immunocytochemistry/ Immunofluorescence - Anti-CD90 / Thy1 antibody [EPR28145-53] (ab307736)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized PC-12 (rat adrenal gland pheochromocytoma small irregularly shaped cells) cells labeling CD90 / Thy1 with ab307736 at 1/250 dilution (1.8 µg/ml) followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (2 µg/ml) (Green).
Confocal image showing membranous and cytoplasmic staining in PC-12 cell line.
Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8). **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (2.5 µg/ml) (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 dilution (2 µg/ml).



Immunocytochemistry/ Immunofluorescence - Anti-CD90 / Thy1 antibody [EPR28145-53] (ab307736)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized EL4 (mouse lymphoma T lymphocyte) cells labeling CD90 / Thy1 with ab307736 at 1/250 dilution (1.8 µg/ml) followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (2 µg/ml) (Green).
Confocal image showing membranous and cytoplasmic staining in EL4 cell line.
Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8). **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (2.5 µg/ml) (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 dilution (2 µg/ml).



Immunocytochemistry/ Immunofluorescence - Anti-CD90 / Thy1 antibody [EPR28145-53] (ab307736)

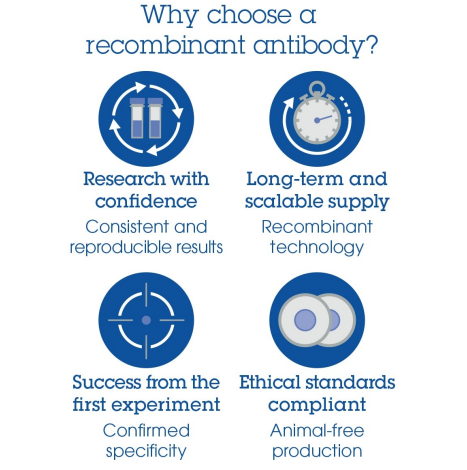
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U-2 OS (human bone osteosarcoma epithelial cell) cells labeling CD90 / Thy1 with ab307736 at 1/250 dilution (1.8 µg/ml) followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (2 µg/ml) (Green).

Confocal image showing membranous and cytoplasmic staining in U-2 OS cell line, no staining was observed in K-562 cell line.

Negative control: K-562 (PMID: 7683034).

Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8). **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (2.5 µg/ml) (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 dilution (2 µg/ml).



Anti-CD90 / Thy1 antibody [EPR28145-53] (ab307736)

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