

Product datasheet

Anti-STAT6 (phospho Y641) antibody [EPR22599-78] ab263947

重组 RabMAb

1 References 12 图像

概述

产品名称	Anti-STAT6 (phospho Y641)抗体[EPR22599-78]
描述	兔单克隆抗体[EPR22599-78] to STAT6 (phospho Y641)
宿主	Rabbit
特异性	STAT6 is activated via phosphorylation at Tyr641 and is required for responsiveness to IL-4 and IL-13.
经测试应用	适用于: Flow Cyt, IP, Dot blot, WB, IHC-P 不适用于: ChIP or ICC/IF
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Human kidney tissue, Rat liver tissue and Mouse kidney tissue; WB: Daudi serum IL-4, 2.4G2 and RAW 264.7 serums starved for 24 hours, then treated with 100 ng/ml; IP: RAW 264.7 and Daudi lysates; Flow Cyt: RAW 264.7 and Daudi cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - 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: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified

克隆 单克隆
 克隆编号 EPR22599-78
 同种型 IgG

应用

The Abpromise guarantee [Abpromise™](#) 承诺保证使用ab263947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		1/500.
IP		1/30.
Dot blot		1/1000.
WB		1/1000. Predicted molecular weight: 94 kDa.
IHC-P		1/5000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

应用说明 Is unsuitable for ChIP or ICC/IF.

靶标

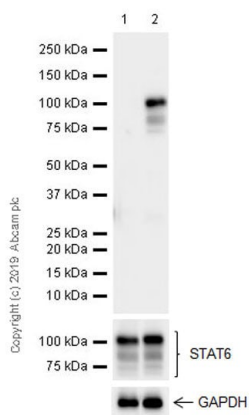
功能 Carries out a dual function: signal transduction and activation of transcription. Involved in interleukin-4 signalling.

序列相似性 Belongs to the transcription factor STAT family.
Contains 1 SH2 domain.

翻译后修饰 Tyrosine phosphorylated following stimulation by IL-4 and IL-3.

细胞定位 Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.

图片



Western blot - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] (ab263947)

All lanes : Anti-STAT6 (phospho Y641) antibody [EPR22599-78] (ab263947) at 1/1000 dilution

Lane 1 : RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) serum starved for 24 hours, whole cell lysate at 10 μ g

Lane 2 : RAW264.7 serum starved for 24 hours, then treated with 100 ng/ml mL-4 for 15 minutes, whole cell lysate 10 μ g

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 94 kDa

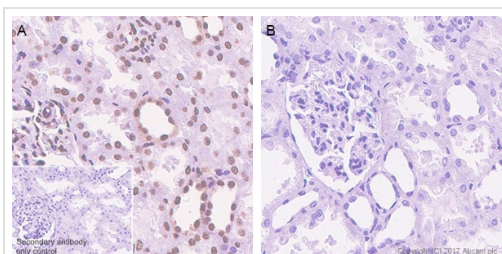
Observed band size: 110,94 kDa

Blocking and diluting buffer and concentration: 5% NFD/MTBST

Phosphorylation of STAT6 at Y641 can be induced by IL-4 treatment (PMID: 21411736,15044251) The molecular weight observed is consistent with what has been described in the literature (PMID: 24708771).

STAT6 is activated via phosphorylation at Tyr641 and is required for responsiveness to IL-4 and IL-13.

Exposure time: 15 seconds



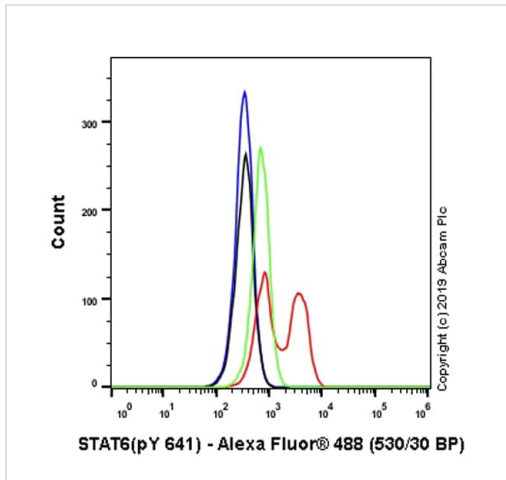
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] (ab263947)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling STAT6 (phospho Y641) with ab263947 at 1:5000 dilution (0.106 μ g/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on human kidney (panel A), no staining after alkaline phosphatase treatment (panel B. PMID: 8085155, 16181056). The section was incubated with ab263947 for 15 mins at RT. 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 Rabbit specific IHC polymer detection kit HRP/DAB

([ab209101](#)).

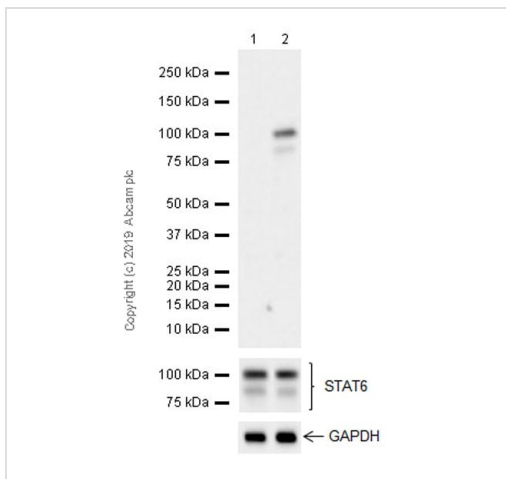
Heat mediated antigen retrieval with citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.



Flow Cytometry (Intracellular) - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] ([ab263947](#))

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) was serum starved for 24h, then treated with 100ng/ml IL-4 for 15min (Red) / Untreated control (Green) cells labelling STAT6 (phospho Y641) with [ab263947](#) at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG ([ab172730](#)) isotype control (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/2000 dilution was used as the secondary antibody.

STAT6 is activated via phosphorylation at Tyr641 and is required for responsiveness to IL-4 and IL-13.



Western blot - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] ([ab263947](#))

All lanes : Anti-STAT6 (phospho Y641) antibody [EPR22599-78] ([ab263947](#)) at 1/5000 dilution

Lane 1 : 2.4G2 (rat B cell lymphoma B lymphocyte) serum starved for 24 hours, whole cell lysate at 10 µg

Lane 2 : 2.4G2 serum starved for 24 hours, then treated with 100 ng/ml rIL-4 for 15 minutes, whole cell lysate 10 µg

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 94 kDa

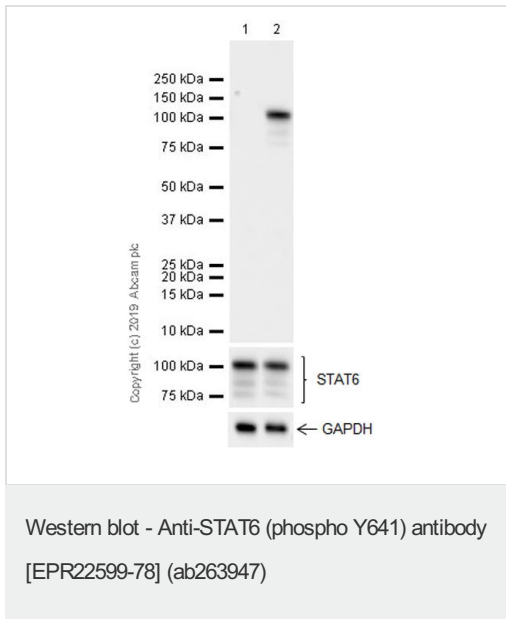
Observed band size: 110,94 kDa

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

Phosphorylation of STAT6 at Y641 can be induced by IL-4 treatment (PMID: 21411736,15044251) The molecular weight observed is consistent with what has been described in the literature (PMID: 24708771).

STAT6 is activated via phosphorylation at Tyr641 and is required for responsiveness to IL-4 and IL-13.

Exposure time: 37 seconds



All lanes : Anti-STAT6 (phospho Y641) antibody [EPR22599-78] (ab263947) at 1/5000 dilution

Lane 1 : Daudi (human Burkitts lymphoma lymphoblast) serum starved for 24 hours, whole cell lysate at 10 µg

Lane 2 : Daudi serum starved for 24 hours, then treated with 100 ng/ml IL-4 for 15 minutes, whole cell lysate 10 µg

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

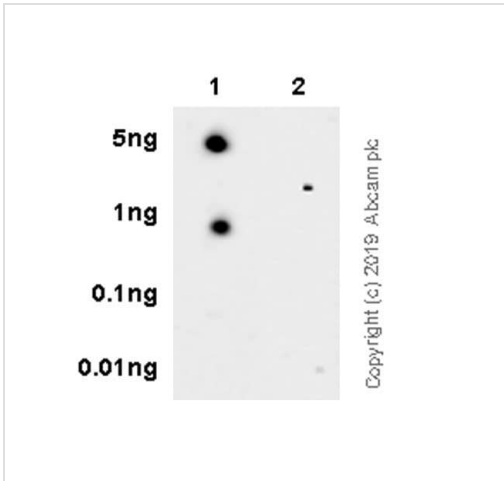
Predicted band size: 94 kDa

Observed band size: 110,75,81 kDa

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

Phosphorylation of STAT6 at Y641 can be induced by IL-4 treatment (PMID: 21411736,15044251) This antibody recognizes three isoforms of STAT6, isoform 1 (110 kDa), isoform 2 (75 kDa), isoform 3 (81 kDa), which is consistent with the Uniprot annotation. STAT6 is activated via phosphorylation at Tyr641 and is required for responsiveness to IL-4 and IL-13.

Exposure time: 15 seconds

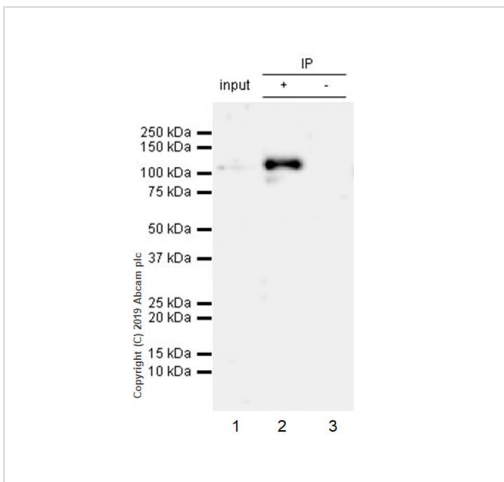


Dot Blot - Anti-STAT6 (phospho Y641) antibody
[EPR22599-78] (ab263947)

Dot blot analysis of STAT6 (phospho Y641) peptide (Lane 1 STAT6 non-phospho peptide (Lane 2), labelling STAT 6 (pY641) with purified ab263947 at a dilution of 1/1000. [ab97051](#) (Peroxidase conjugated goat anti-rabbit IgG (H+L)) was used as the secondary antibody at a dilution of 1/100000.

Blocking and dilution buffer: 5% NFDm/TBST.

Exposure time: 26 seconds.



Immunoprecipitation - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] (ab263947)

STAT6 (phospho Y641) was immunoprecipitated from 0.35 mg RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) was serum starved for 24h, then treated with 100ng/ml IL-4 for 15min whole cell lysate 10ug with ab263947 at 1:30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab263947 at 1:1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1:5000 dilution.

Lane 1: RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) was serum starved for 24h, then treated with 100ng/ml IL-4 for 15min whole cell lysate 10ug

Lane 2: ab263947 IP in RAW 264.7 was serum starved for 24h, then treated with 100ng/ml IL-4 for 15min whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab263947 in RAW 264.7 was serum starved for 24h, then treated with 100ng/ml IL-4 for 15min whole cell lysate

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

Exposure time: 2 min



Immunoprecipitation - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] (ab263947)

STAT6 (phospho Y641) was immunoprecipitated from 0.35 mg Daudi (Human Burkitt's lymphoma lymphoblast) was serum starved for 24h, then treated with 100ng/ml IL-4 for 15min whole cell lysate 10ug with ab263947 at 1:30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab263947 at 1:1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366) was used at 1:5000 dilution.

Lane 1: Daudi (Human Burkitt's lymphoma lymphoblast) was serum starved for 24h, then treated with 100ng/ml IL-4 for 15min whole cell lysate 10ug

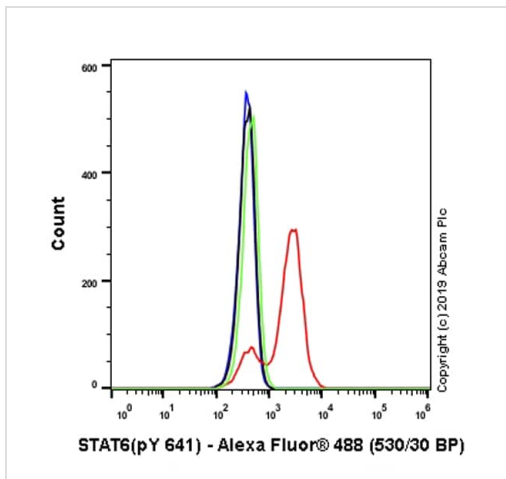
Lane 2: ab263947 IP in Daudi was serum starved for 24h, then treated with 100ng/ml IL-4 for 15min whole cell lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab263947 in Daudi was serum starved for 24h, then treated with 100ng/ml IL-4 for 15min whole cell lysate

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

STAT6 is activated via phosphorylation at Tyr641 and is required for responsiveness to IL-4 and IL-13.

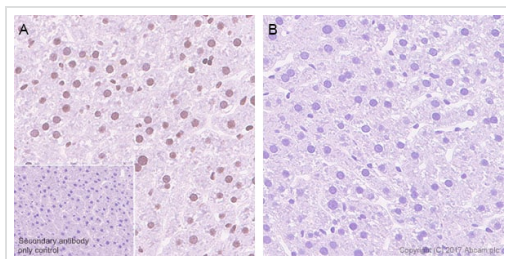
Exposure time: 1 min



Flow Cytometry (Intracellular) - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] (ab263947)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Daudi (Human Burkitt's lymphoma lymphoblast) was serum starved for 24h, then treated with 100ng/ml IL-4 for 15min (Red)/Untreated control (Green) cells labelling STAT6 (phospho Y641) with ab263947 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (ab172730) isotype control (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.

STAT6 is activated via phosphorylation at Tyr641 and is required for responsiveness to IL-4 and IL-13.

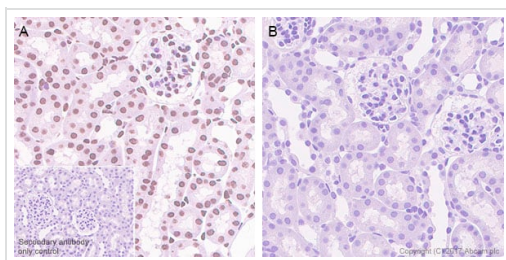


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] (ab263947)

Immunohistochemical analysis of paraffin-embedded Rat liver tissue labeling STAT6 (phospho Y641) with ab263947 at 1:5000 dilution (0.106 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on rat liver (panel A), no staining after alkaline phosphatase treatment (panel B). The section was incubated with ab263947 for 15 mins at RT. 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 Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] (ab263947)

Immunohistochemical analysis of paraffin-embedded Mouse kidney tissue labeling STAT6 (phospho Y641) with ab263947 at 1/5000 dilution (0.106 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Nuclear staining on mouse kidney (panel A), no staining after alkaline phosphatase treatment (panel B, PMID: 23155424). The section was incubated with ab263947 for 15 mins at RT. 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 Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-STAT6 (phospho Y641) antibody [EPR22599-78] (ab263947)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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