

## Product datasheet

# Anti-STAT6 (phospho Y641) antibody [EPR22599-78] - BSA and Azide free ab263950

Recombinant RabMAb

9 Images

### Overview

<b>Product name</b>	Anti-STAT6 (phospho Y641) antibody [EPR22599-78] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR22599-78] to STAT6 (phospho Y641) - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Specificity</b>	STAT6 is activated via phosphorylation at Tyr641 and is required for responsiveness to IL-4 and IL-13.
<b>Tested applications</b>	<b>Suitable for:</b> Dot blot, IP, WB, Flow Cyt (Intra), IHC-P <b>Unsuitable for:</b> ChIP or ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	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 (intra): RAW 264.7 and Daudi cells.
<b>General notes</b>	<p>ab263950 is the carrier-free version of <a href="#">ab263947</a>.</p> <p>Our <a href="#">carrier-free</a> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <a href="#">conjugation kits</a> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> </ul>

- Animal-free production

For more information [see here](#).

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR22599-78
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab263950 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>Dot blot</b>		Use at an assay dependent concentration.
<b>IP</b>		Use at an assay dependent concentration.
<b>WB</b>		Use at an assay dependent concentration. Predicted molecular weight: 94 kDa.
<b>Flow Cyt (Intra)</b>		Use at an assay dependent concentration.
<b>IHC-P</b>		1/5000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

**Application notes** Is unsuitable for ChIP or ICC/IF.

## Target

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

## Sequence similarities

Belongs to the transcription factor STAT family.  
Contains 1 SH2 domain.

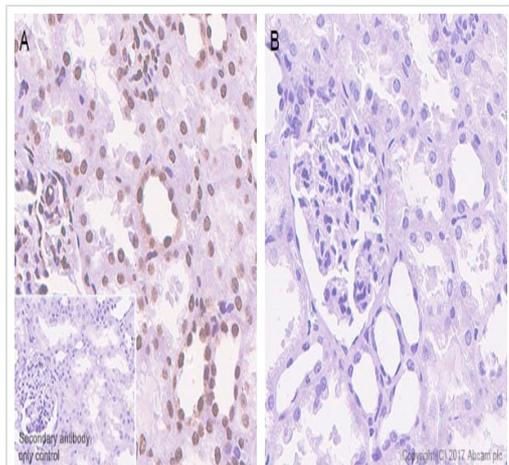
## Post-translational modifications

Tyrosine phosphorylated following stimulation by IL-4 and IL-3.

## Cellular localization

Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.

## Images



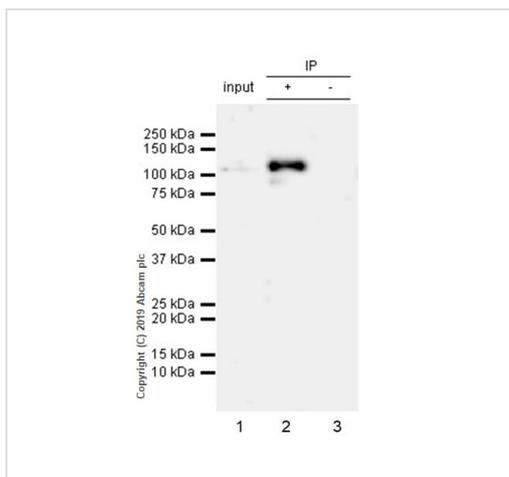
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] - BSA and Azide free (ab263950)

Immunohistochemical analysis of paraffin-embedded Human 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 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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab263947](#)).



Immunoprecipitation - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] - BSA and Azide free (ab263950)

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

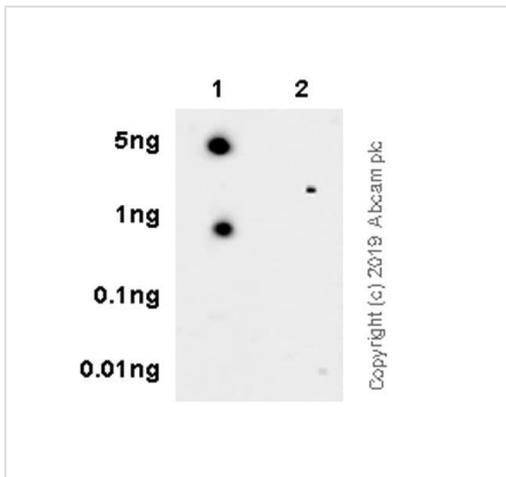
Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab263947](#) in RAW 264.7 was serum starved for 24h, then treated with 100ng/ml IL-4 for 15min whole cell lysate

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

Exposure time: 2 min

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab263947](#)).



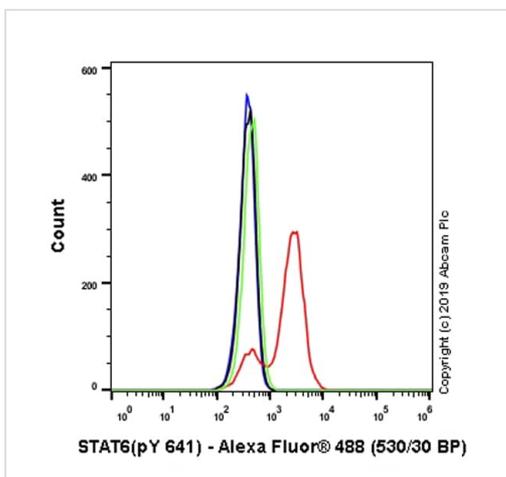
Dot Blot - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] - BSA and Azide free ([ab263950](#))

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab263947](#)).

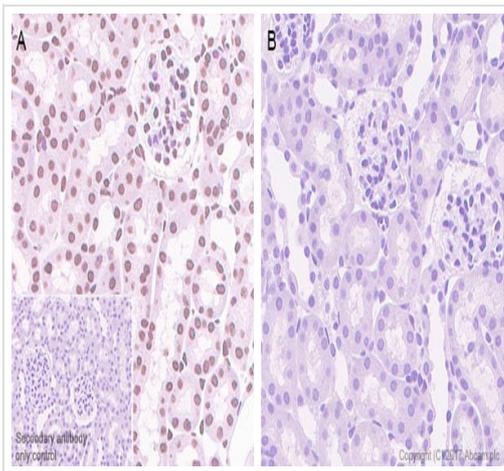


Flow Cytometry (Intracellular) - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] - BSA and Azide free ([ab263950](#))

Intracellular 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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab263947](#)).



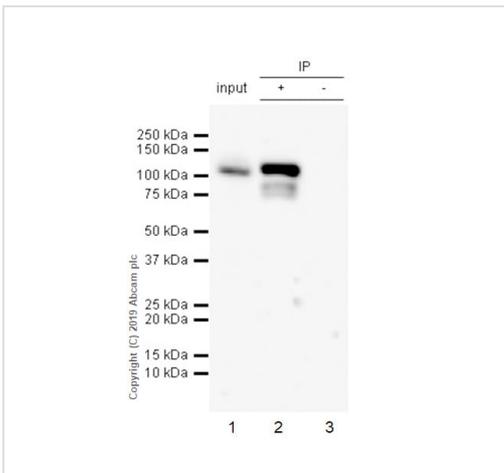
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Immunohistochemical analysis of paraffin-embedded Mouse kidney tissue labeling STAT6 (phospho Y641) with [ab263947](#) at 1:5000 dilution (0.106 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Nuclear 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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab263947](#)).



Immunoprecipitation - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] - BSA and Azide free (ab263950)

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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

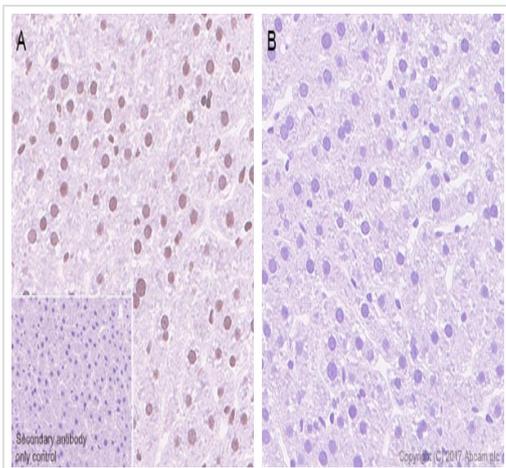
Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab263947](#) in Daudi was serum starved for 24h, then treated with 100ng/ml IL-4 for 15min whole cell lysate

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

Exposure time: 1 min

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab263947](#)).



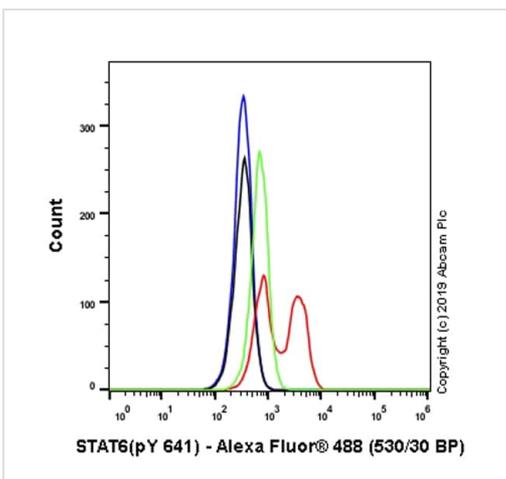
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] - BSA and Azide free (ab263950)

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.

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Flow Cytometry (Intracellular) - Anti-STAT6 (phospho Y641) antibody [EPR22599-78] - BSA and Azide free (ab263950)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab263947](#)).

### 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] - BSA and Azide free (ab263950)

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

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- Extensive multi-media technical resources to help you
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