

## Product datasheet

# Anti-STAT5α+STAT5b antibody [EPR16668] - BSA and Azide free ab251306

Recombinant RabMAb

11 Images

### Overview

<b>Product name</b>	Anti-STAT5a+STAT5b antibody [EPR16668] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR16668] to STAT5a+STAT5b - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, Flow Cyt (Intra), ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	<p>ab251306 is the carrier-free version of <a href="#">ab200341</a>.</p> <p>Our <b>carrier-free</b> 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 <b>conjugation kits</b> 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> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<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>	EPR16668
<b>Isotype</b>	IgG

## Applications

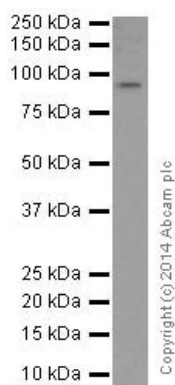
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab251306 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		Use at an assay dependent concentration. Detects a band of approximately 90 kDa (predicted molecular weight: 90 kDa).
<b>IHC-P</b>		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
<b>Flow Cyt (Intra)</b>		Use at an assay dependent concentration.
<b>ICC/IF</b>		Use at an assay dependent concentration.

## Target

**Cellular localization** STAT5a: Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.  
STAT5b: Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.

## Images



Western blot - Anti-STAT5a+STAT5b antibody [EPR16668] - BSA and Azide free (ab251306)

Anti-STAT5a + STAT5b antibody [EPR16668] (**ab200341**) at 1/200 dilution + Full length human Stat5a recombinant protein at 0.01  $\mu$ g

### Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 90 kDa

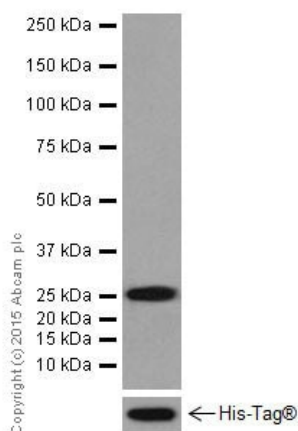
**Observed band size:** 90 kDa

**Exposure time:** 3 minutes

This data was developed using **ab200341**, the same antibody clone in a different buffer formulation.

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

**ab200341** show cross reactivity with STAT5a. Full length human Stat5a recombinant protein contains aa1-794 with MYC/DDDDK tag.



Western blot - Anti-STAT5a+STAT5b antibody [EPR16668] - BSA and Azide free (ab251306)

Anti-STAT5a + STAT5b antibody [EPR16668] (**ab200341**) at 1/10000 dilution + Recombinant protein fragment mouse Stat5b at 0.01  $\mu$ g

### Secondary

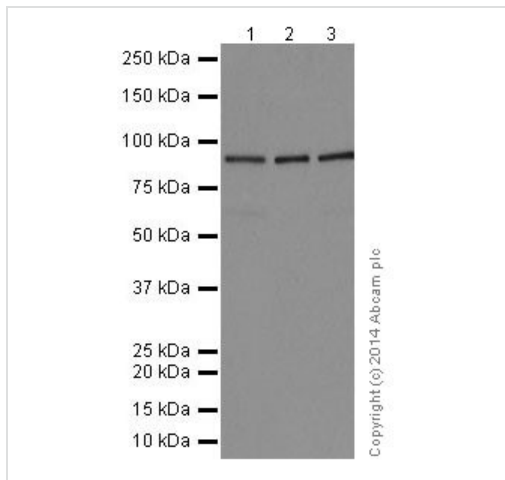
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 90 kDa

**Exposure time:** 3 minutes

This data was developed using **ab200341**, the same antibody clone in a different buffer formulation.

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



**All lanes :** Anti-STAT5a + STAT5b antibody [EPR16668] (**ab200341**) at 1/1000 dilution

**Lane 1 :** K562 (Human chronic myelogenous leukemia cells from bone marrow) whole cell lysate

**Lane 2 :** Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate

**Lane 3 :** Daudi (Human Burkitt's lymphoma cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

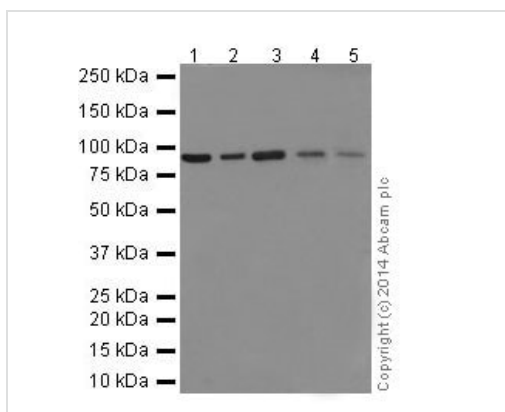
**Predicted band size:** 90 kDa

**Observed band size:** 90 kDa

**Exposure time:** 3 minutes

This data was developed using **ab200341**, the same antibody clone in a different buffer formulation.

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



**All lanes :** Anti-STAT5a + STAT5b antibody [EPR16668] (**ab200341**) at 1/1000 dilution

**Lane 1 :** C6 (Rat glial tumor cells) whole cell lysate

**Lane 2 :** PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate

**Lane 3 :** NIH/3T3 (Mouse embryo fibroblast cells) whole cell lysate

**Lane 4 :** Mouse heart lysate

**Lane 5 :** Rat heart lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 90 kDa

**Observed band size:** 90 kDa

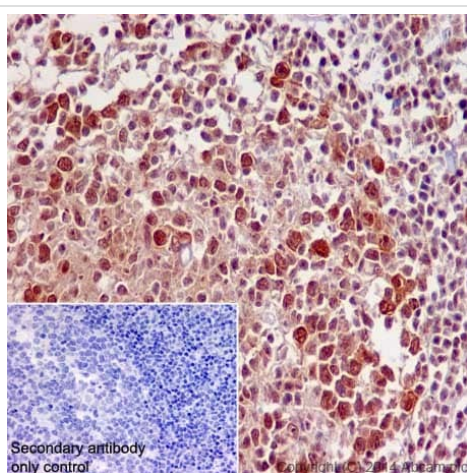
**Exposure time:** 3 minutes

This data was developed using [\*\*ab200341\*\*](#), the same antibody clone in a different buffer formulation.

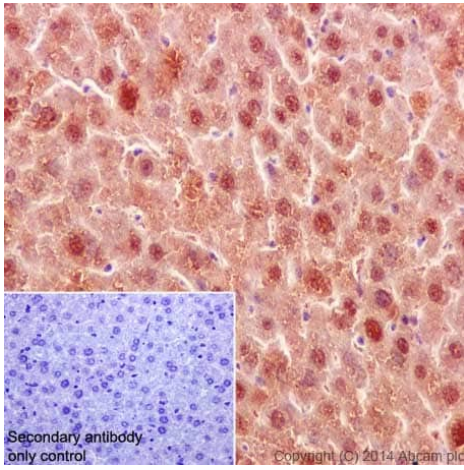
**Blocking and dilution buffer:** 5% NFDM/TBST.

This data was developed using [\*\*ab200341\*\*](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling STAT5b with [\*\*ab200341\*\*](#) at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([\*\*ab97051\*\*](#)) secondary antibody at 1/500 dilution. Cytoplasm and nuclear staining on Human tonsil tissue is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([\*\*ab97051\*\*](#)) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

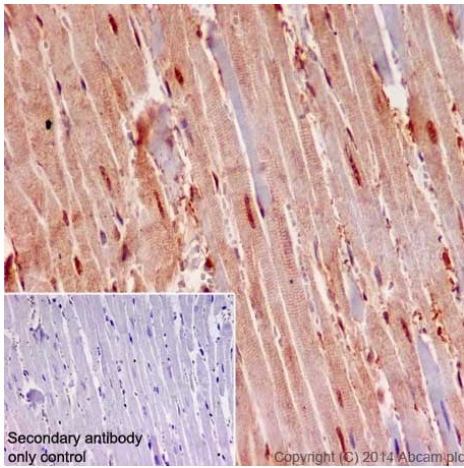


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT5a+STAT5b antibody [EPR16668] - BSA and Azide free (ab251306)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT5a+STAT5b antibody [EPR16668] - BSA and Azide free (ab251306)

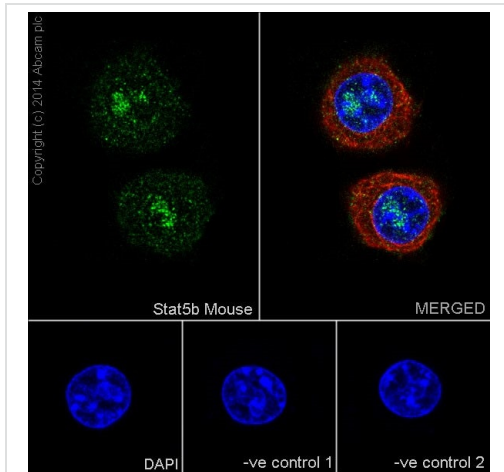
This data was developed using [ab200341](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling STAT5b with [ab200341](#) at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. Cytoplasm and nuclear staining on mouse liver tissue is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT5a+STAT5b antibody [EPR16668] - BSA and Azide free (ab251306)

This data was developed using [ab200341](#), the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Rat cardiac muscle tissue labeling STAT5b with [ab200341](#) at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. Cytoplasm and nuclear staining on rat cardiac muscle tissue is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



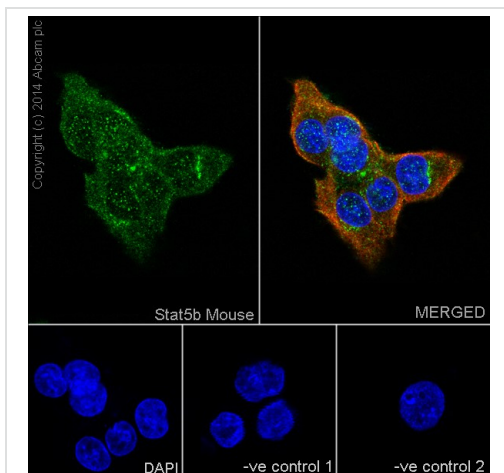


Immunocytochemistry/ Immunofluorescence - Anti-STAT5a+STAT5b antibody [EPR16668] - BSA and Azide free (ab251306)

This data was developed using [ab200341](#), the same antibody clone in a different buffer formulation. Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) cells labeling STAT5b with [ab200341](#) at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/500 dilution (green). Nuclear and cytoplasm staining on RAW 264.7 cell line is observed. The nuclear counter stain is DAPI (blue). Tubulin is detected with [ab7291](#) (anti-Tubulin mouse mAb) at 1/1000 dilution and [ab150120](#) (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red). The negative controls are as follows:

-ve control 1: [ab200341](#) at 1/500 dilution followed by [ab150120](#) (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.

-ve control 2: [ab7291](#) (anti-Tubulin mouse mAb) at 1/1000 dilution followed by [ab150077](#) (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.

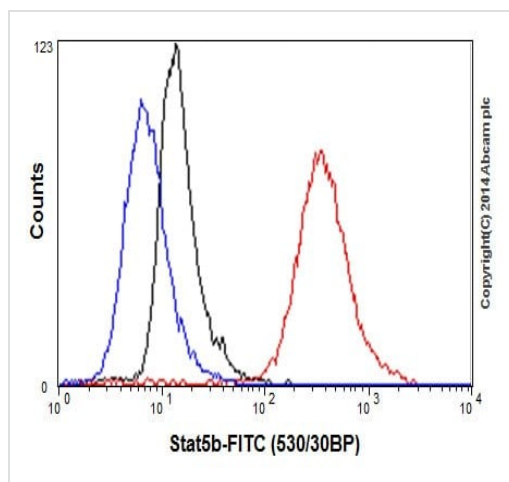


Immunocytochemistry/ Immunofluorescence - Anti-STAT5a+STAT5b antibody [EPR16668] - BSA and Azide free (ab251306)

This data was developed using [ab200341](#), the same antibody clone in a different buffer formulation. Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized C6 (Rat glial tumor cells) cells labeling STAT5b with [ab200341](#) at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/500 dilution (green). Nuclear and cytoplasm staining on C6 cell line is observed. The nuclear counter stain is DAPI (blue). Tubulin is detected with [ab7291](#) (anti-Tubulin mouse mAb) at 1/1000 dilution and [ab150120](#) (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red). The negative controls are as follows:

-ve control 1: [ab200341](#) at 1/500 dilution followed by [ab150120](#) (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.

-ve control 2: [ab7291](#) (anti-Tubulin mouse mAb) at 1/1000 dilution followed by [ab150077](#) (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.

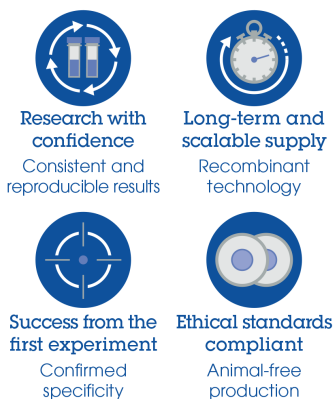


Flow Cytometry (Intracellular) - Anti-STAT5a+STAT5b antibody [EPR16668] - BSA and Azide free (ab251306)

This data was developed using [ab200341](#), the same antibody clone in a different buffer formulation.

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed NIH/3T3 (Mouse embryo fibroblast cells) cells labeling STAT5b with [ab200341](#) at 1/80 dilution (red) compared with a rabbit monoclonal IgG isotype control ([ab172730](#); black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (FITC) at 1/150 dilution was used as the secondary antibody.

### Why choose a recombinant antibody?



Anti-STAT5a+STAT5b antibody [EPR16668] - BSA and Azide free (ab251306)

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

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