

Product datasheet

Anti-STAT5 α + STAT5b antibody [EPR16668] α b200341

Recombinant RabMAb

[2 References](#) [11 Images](#)

Overview

Product name	Anti-STAT5a + STAT5b antibody [EPR16668]
Description	Rabbit monoclonal [EPR16668] to STAT5a + STAT5b
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF, IHC-P, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Full length human Stat5a recombinant protein; recombinant protein fragment mouse stat5b; K562, Jurkat, Daudi, C6, PC-12 and NIH/3T3 whole cell lysates; mouse and rat heart lysates. IHC-P: Human tonsil, mouse liver and rat cardiac muscle tissues. ICC/IF: RAW 264.7 and C6 cells. Flow Cyt (intra): NIH/3T3 cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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 <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16668

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab200341 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
Flow Cyt (Intra)		1/80.
ICC/IF		1/500.
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/200 - 1/10000. Detects a band of approximately 90 kDa (predicted molecular weight: 90 kDa).

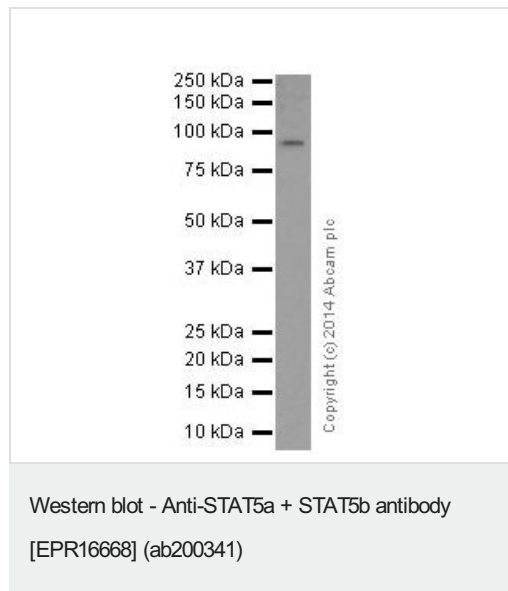
Target

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



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

Secondary

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

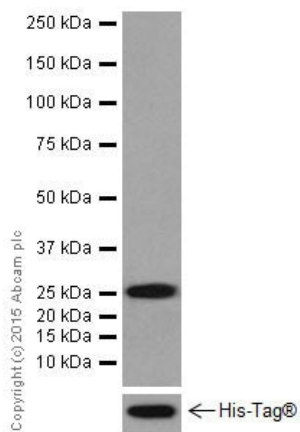
Predicted band size: 90 kDa

Observed band size: 90 kDa

Exposure time: 3 minutes

Blocking/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] (ab200341)

Anti-STAT5a + STAT5b antibody [EPR16668] (ab200341) at 1/10000 dilution + Recombinant protein fragment mouse Stat5b at 0.01 µg

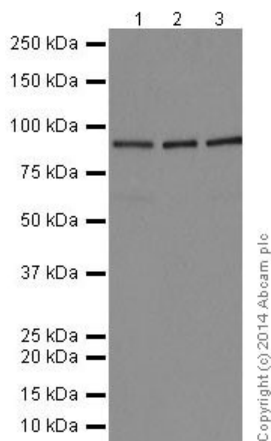
Secondary

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

Predicted band size: 90 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-STAT5a + STAT5b antibody [EPR16668] (ab200341)

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

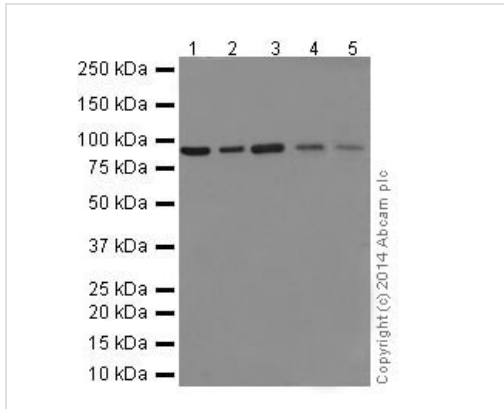
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 90 kDa

Observed band size: 90 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-STAT5a + STAT5b antibody [EPR16668] (ab200341)

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

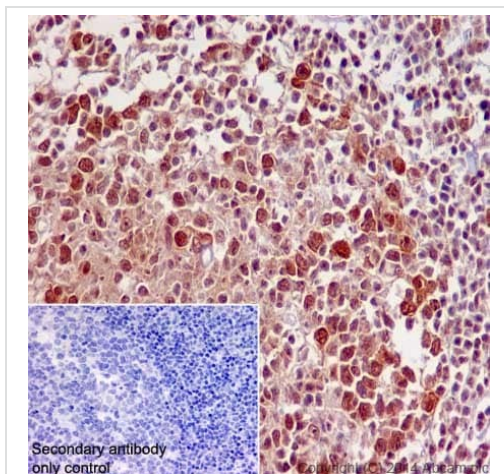
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 90 kDa

Observed band size: 90 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT5a + STAT5b antibody [EPR16668] (ab200341)

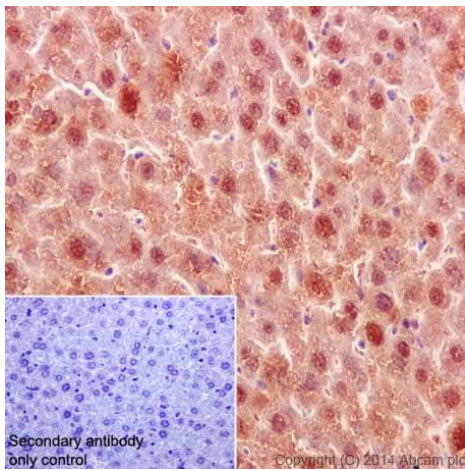
Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling STAT5b with ab200341 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution.

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] (ab200341)

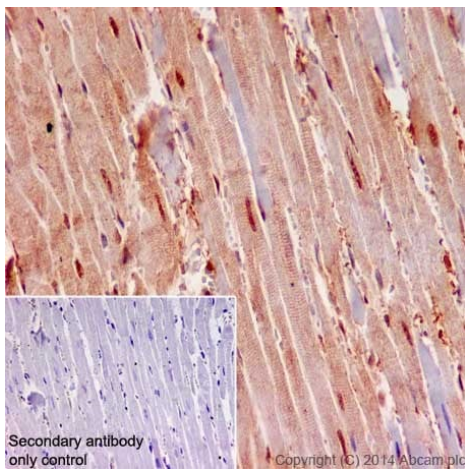
Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling STAT5b with ab200341 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution.

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] (ab200341)

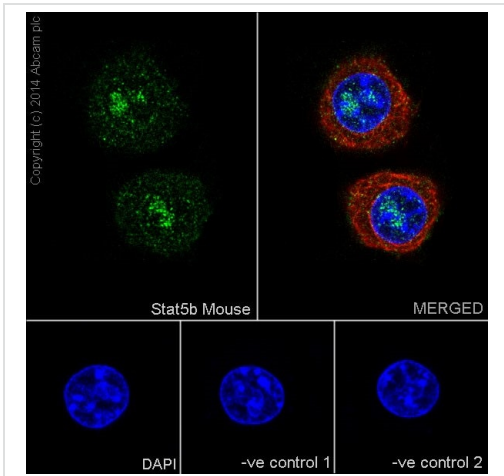
Immunohistochemical analysis of paraffin-embedded Rat cardiac muscle tissue labeling STAT5b with ab200341 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution.

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] (ab200341)

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).

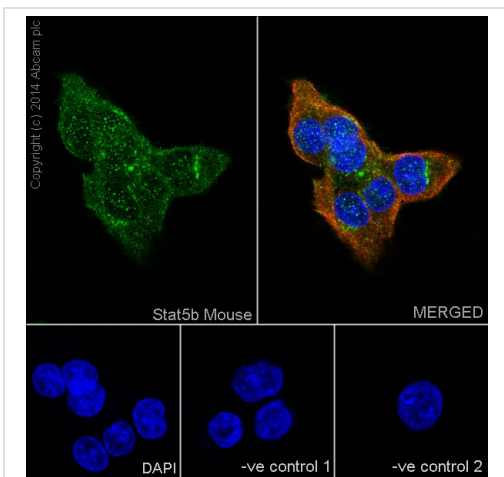
Nuclear and cytoplasm staining on RAW 264.7 cell line is observed.

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] (ab200341)

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.

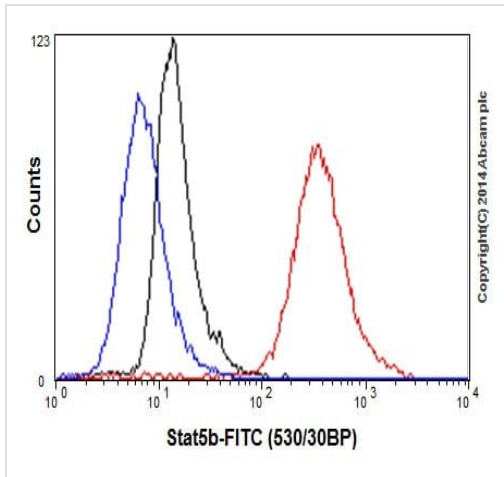
The nuclear counter stain is DAPI (blue).

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] (ab200341)

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?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-STAT5a + STAT5b antibody [EPR16668] (ab200341)

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

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