

Product datasheet

Anti-STAT5α + STAT5b antibody [EPR16671-40] ab194898

Recombinant RabMAb

★★★★★ **3 Abreviews** **12 References** [13 Images](#)

Overview

Product name	Anti-STAT5a + STAT5b antibody [EPR16671-40]
Description	Rabbit monoclonal [EPR16671-40] to STAT5a + STAT5b
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), IHC-P, WB, ICC/IF, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human STAT5A full length recombinant protein; K562, Jurkat and Daudi cell lysates; Human fetal heart and kidney lysates; mouse heart, kidney, spleen lysates; rat brain, heart, spleen lysates; RAW 264.7, PC12, NIH/3T3 whole cell lysates. IHC-P: Human tonsils, mouse spleen and rat spleen tissue. IF, Flow, IP: K562 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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</p>
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR16671-40
Isotype	IgG

Applications

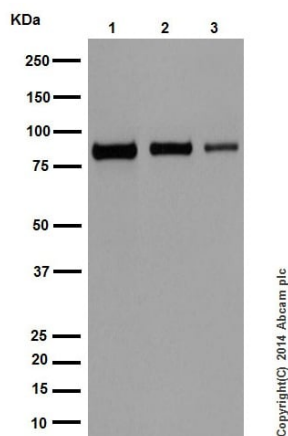
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab194898 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/80. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P	★★★★★ (2)	1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB	★★★★★ (1)	1/2000. Detects a band of approximately 91 kDa (predicted molecular weight: 91 kDa).
ICC/IF		1/250.
IP		1/100.

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
[EPR16671-40] (ab194898)

All lanes : Anti-STAT5a + STAT5b antibody [EPR16671-40]
(ab194898) at 1/20000 dilution

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

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

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

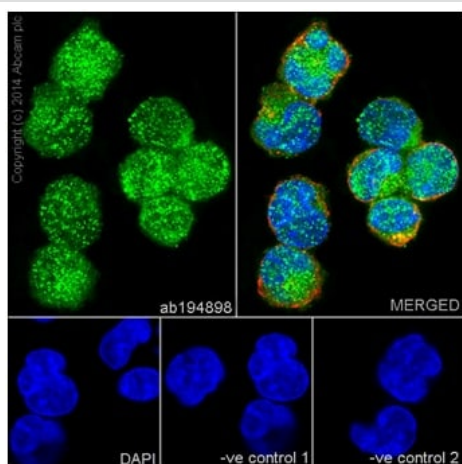
Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 91 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

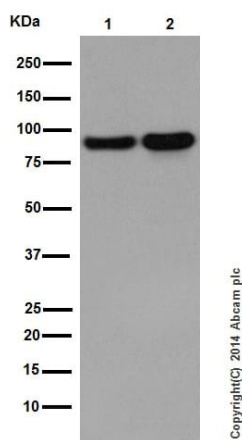


Immunocytochemistry/ Immunofluorescence - Anti-
STAT5a + STAT5b antibody [EPR16671-40]
(ab194898)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized K562 (Human chronic myelogenous leukemia cells from bone marrow) cells labeling STAT5a + STAT5b with ab194898 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/400 dilution (green). Confocal image showing both cytoplasmic and nuclear staining on K562 cell line. The nuclear counter stain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/500 dilution and **ab150120** (AlexaFluor® 594 Goat anti-Mouse secondary) at 1/500 dilution (red).

The negative controls are as follows:

1. ab194898 at 1/250 dilution followed by **ab150120** (Alexa Fluor® 594 Goat anti-Mouse secondary) at 1/500 dilution.
2. **ab7291** (anti-Tubulin mouse mAb) at 1/500 dilution followed by **ab150077** (Alexa Fluor® 488 Goat Anti-Rabbit IgG H&L) at 1/400 dilution.



Western blot - Anti-STAT5a + STAT5b antibody [EPR16671-40] (ab194898)

All lanes : Anti-STAT5a + STAT5b antibody [EPR16671-40] (ab194898) at 1/2000 dilution

Lane 1 : Human fetal heart lysates

Lane 2 : Human fetal kidney lysates

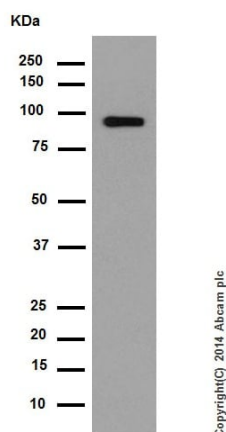
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 91 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-STAT5a + STAT5b antibody [EPR16671-40] (ab194898)

Anti-STAT5a + STAT5b antibody [EPR16671-40] (ab194898) at 1/1000 dilution + Human STAT5A full length recombinant protein at 10 µg

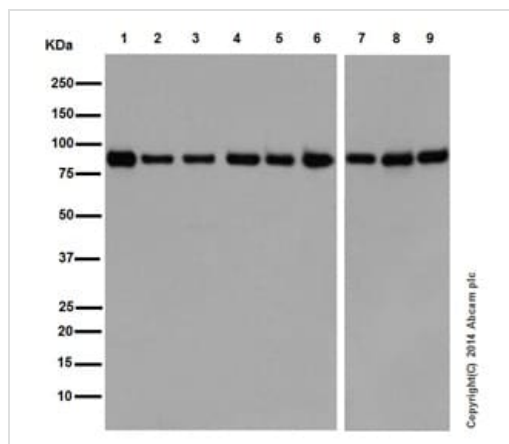
Secondary

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

Predicted band size: 91 kDa

Recombinant human C-terminal Myc/DDK tagged full length STAT5A from a commercial source.

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-STAT5a + STAT5b antibody
[EPR16671-40] (ab194898)

All lanes : Anti-STAT5a + STAT5b antibody [EPR16671-40]
(ab194898) at 1/2000 dilution

Lane 1 : mouse heart lysates

Lane 2 : mouse kidney lysates

Lane 3 : mouse spleen lysates

Lane 4 : rat brain lysates

Lane 5 : rat heart lysates

Lane 6 : rat spleen lysates

Lane 7 : RAW 264.7 (Mouse macrophage cells transformed with
Abelson murine leukemia virus) whole cell lysates

Lane 8 : PC12 (Rat adrenal gland pheochromocytoma) whole cell
lysates

Lane 9 : NIH3T3 (Mouse embryo fibroblast cells) whole cell lysates

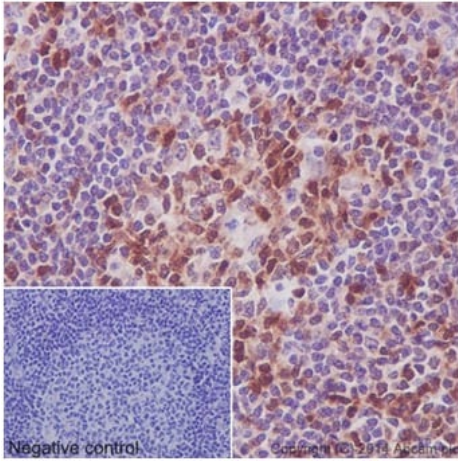
Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 91 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

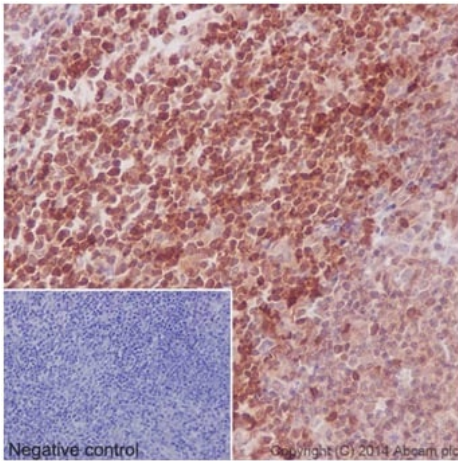


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT5a + STAT5b antibody [EPR16671-40] (ab194898)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling STAT5a + STAT5b using ab194898 at 1/2000 dilution. A Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 was used as secondary. Counter stained with Hematoxylin. Inset image: negative control obtained using PBS instead of ab194898.

Nuclear and weak cytoplasmic staining on lymphocytes of human tonsil is observed.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

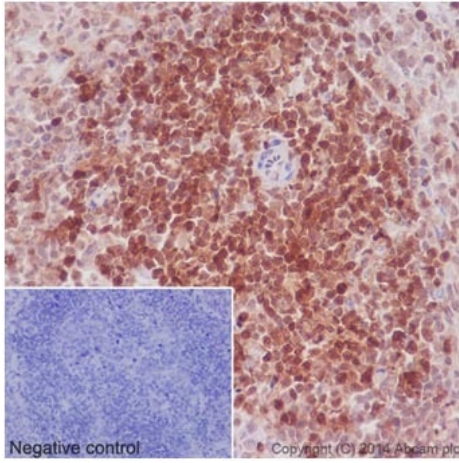


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT5a + STAT5b antibody [EPR16671-40] (ab194898)

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling STAT5a + STAT5b using ab194898 at 1/2000 dilution. A Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 was used as secondary. Counter stained with Hematoxylin. Inset image: negative control obtained using PBS instead of ab194898.

Nuclear and weak cytoplasmic staining on lymphocytes of mouse spleen is observed.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

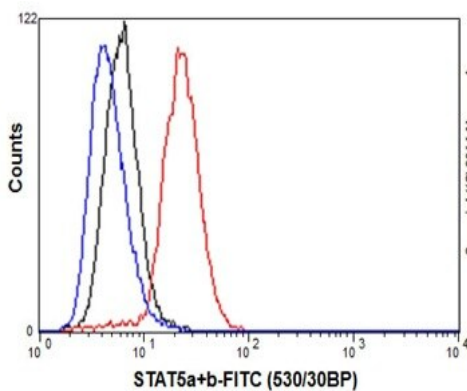


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT5a + STAT5b antibody [EPR16671-40] (ab194898)

Immunohistochemical analysis of paraffin-embedded rat spleen tissue labeling STAT5a + STAT5b using ab194898 at 1/2000 dilution. A Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 was used as secondary. Counter stained with Hematoxylin. Inset image: negative control obtained using PBS instead of ab194898.

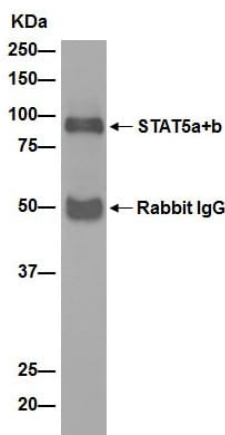
Nuclear and weak cytoplasmic staining on lymphocytes of rat spleen is observed.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-STAT5a + STAT5b antibody [EPR16671-40] (ab194898)

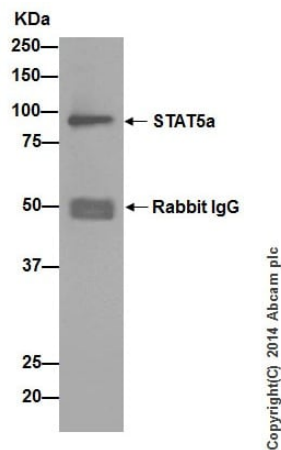
Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed K562 (Human chronic myelogenous leukemia cells from bone marrow) cells labeling STAT5a +STAT5b with ab194898 at 1/80 dilution (red) compared with a rabbit monoclonal IgG isotype control (black) and a unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (FITC) at 1/150 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-STAT5a + STAT5b antibody [EPR16671-40] (ab194898)

STAT5a and STAT5b were immunoprecipitated from 1mg of K562 (Human chronic myelogenous leukemia cells from bone marrow) cells with ab194898 at 1/100 dilution. Western blot was performed from the immunoprecipitate using ab194898 at 1/1000 dilution. Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated, was used as secondary antibody at 1/1000 dilution.

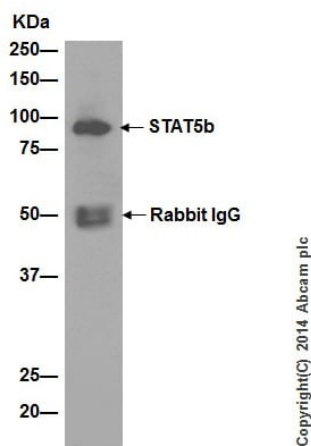
Blocking and dilution buffer and concentration: 5% NFDM/TBST.



Immunoprecipitation - Anti-STAT5a + STAT5b
antibody [EPR16671-40] (ab194898)

STAT5a + STAT5b were co-immunoprecipitated from 1mg of K562 (Human chronic myelogenous leukemia cells from bone marrow) cells with ab194898 at 1/100 dilution. Western blot was performed from the immunoprecipitate using [ab32043](#) (Rabbit monoclonal [E289] to STAT5a) at 1/1000 dilution. Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated, was used as secondary antibody at 1/1000 dilution.

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



Immunoprecipitation - Anti-STAT5a + STAT5b
antibody [EPR16671-40] (ab194898)

STAT5a + STAT5b were co-immunoprecipitated from 1mg of K562 (Human chronic myelogenous leukemia cells from bone marrow) cells with ab194898 at 1/100 dilution. Western blot was performed from the immunoprecipitate using [ab178941](#) (Rabbit monoclonal [EPR16671] to STAT5b) at 1/1000 dilution. Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated, was used as secondary antibody at 1/1000 dilution.

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

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-STAT5a + STAT5b antibody [EPR16671-40]
(ab194898)

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