

Anti-STAT5a antibody [E289] ab32043

リコンビナント RabMAb

★★★★★ **2 Abreviews** **33 References** 画像数 13

製品の概要

製品名	Anti-STAT5a antibody [E289]
製品の詳細	Rabbit monoclonal [E289] to STAT5a
由来種	Rabbit
特異性	The antibody recognises Stat5a. It does not cross-react with other Stat family members. The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
アプリケーション	適用あり: WB, IHC-P, ICC/IF, IP, Flow Cyt (Intra)
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: A431 cell lysate. IHC-P: Human squamous lung carcinoma. ICC/IF: Jurkat cells. Flow Cyt (intra): Jurkat cells.
特記事項	<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>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名 E289
 アイソタイプ IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab32043の使用に適用されず
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (1)	1/1000. Detects a band of approximately 92 kDa (predicted molecular weight: 91 kDa).
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat. See IHC antigen retrieval protocols
ICC/IF		1/100 - 1/500.
IP		1/20. For unpurified use at 1/80.
Flow Cyt (Intra)		1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. For unpurified use at 1/10.

ターゲット情報

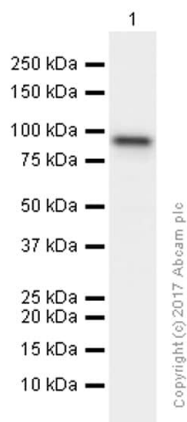
機能 Carries out a dual function: signal transduction and activation of transcription. Binds to the GAS element and activates PRL-induced transcription.

配列類似性 Belongs to the transcription factor STAT family.
Contains 1 SH2 domain.

翻訳後修飾 Tyrosine phosphorylated in response to IL-2, IL-3, IL-7, IL-15, GM-CSF, growth hormone, prolactin, erythropoietin and thrombopoietin. Tyrosine phosphorylation is required for DNA-binding activity and dimerization. Serine phosphorylation is also required for maximal transcriptional activity.

細胞内局在 Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.

画像



Western blot - Anti-STAT5a antibody [E289]
(ab32043)

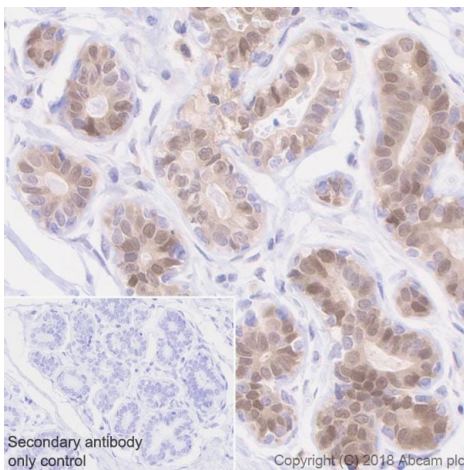
Anti-STAT5a antibody [E289] (ab32043) at 1/20000 dilution (purified) + K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysates at 20 μ g

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

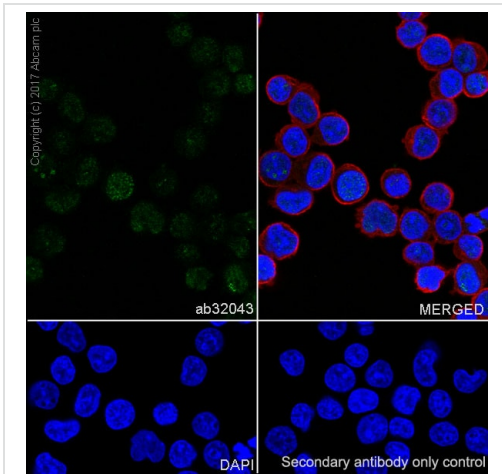
Predicted band size: 91 kDa

Observed band size: 92 kDa



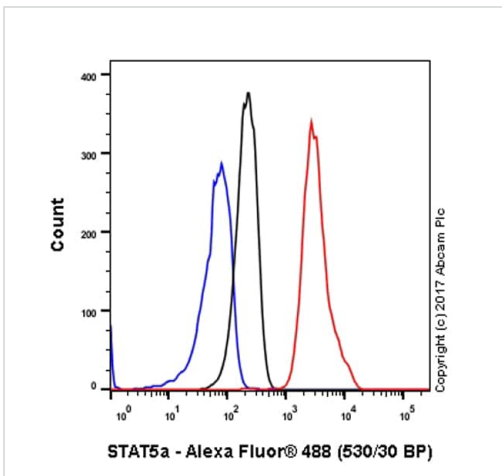
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT5a antibody [E289]
(ab32043)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast tissue sections labeling STAT5a with purified ab32043 at 1:1000 dilution (0.12 μ g/ml). Heat mediated antigen retrieval was performed using Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use). PBS instead of the primary antibody was used as the negative control.



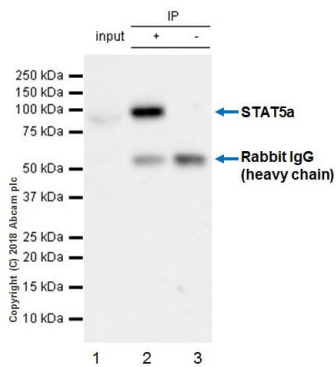
Immunocytochemistry/ Immunofluorescence - Anti-STAT5a antibody [E289] (ab32043)

Immunocytochemistry/ Immunofluorescence analysis of Jurkat (human T cell leukemia T lymphocyte) cells labeling STAT5a with purified ab32043 at 1:100 (1.2 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry (Intracellular) - Anti-STAT5a antibody [E289] (ab32043)

Intracellular Flow Cytometry analysis of Jurkat (human acute T cell leukemia) cells labeling STAT5a with purified ab32043 at 1/100 dilution (1 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunoprecipitation - Anti-STAT5a antibody [E289]
(ab32043)

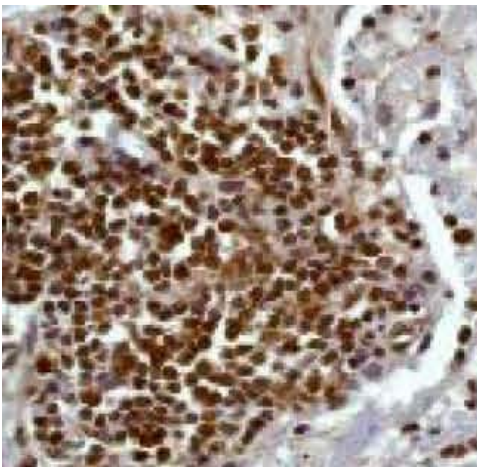
ab32043 (purified) at 1:20 dilution (0.6ug) immunoprecipitating in TF-1 whole cell lysate. TF-1 (Human Erythroleukemia erythroblast) whole cell lysate 10ug

Lane 2 (+): ab32043 & TF-1 whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab32043 in TF-1 whole cell lysate

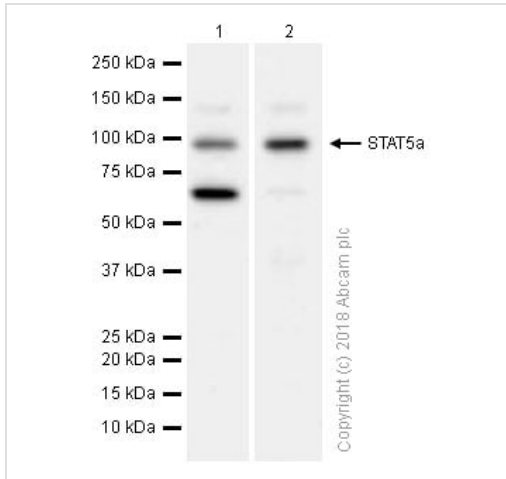
For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDm/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT5a antibody [E289]
(ab32043)

Unpurified ab32043 at 1/250 dilution, staining human squamous lung carcinoma by Immunohistochemistry, paraffin-embedded tissue. Heat mediated antigen retrieval was performed using Perform heat mediated antigen retrieval using (Tris/EDTA buffer, pH 9.0).



Western blot - Anti-STAT5a antibody [E289] (ab32043)

All lanes : Anti-STAT5a antibody [E289] (ab32043) at 1/1000 dilution (Purified)

Lane 1 : Mouse brain lysates

Lane 2 : Rat brain lysates

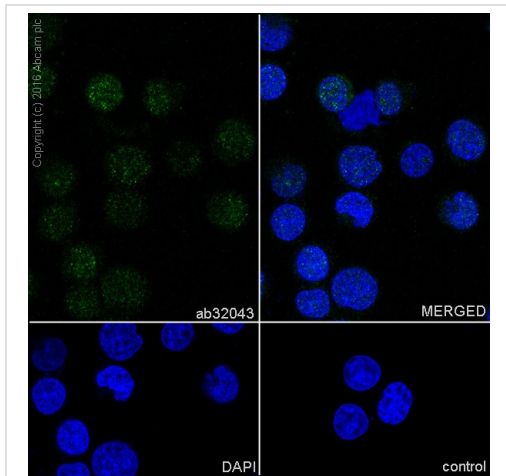
Lysates/proteins at 15 µg per lane.

Secondary

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

Predicted band size: 91 kDa

Observed band size: 92 kDa

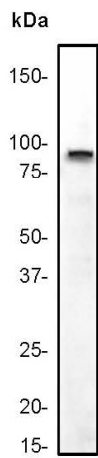


Immunocytochemistry/ Immunofluorescence - Anti-STAT5a antibody [E289] (ab32043)

Immunocytochemistry/Immunofluorescence analysis of Jurkat cells labelling STAT5a with unpurified ab32043 at 1/500. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor[®] 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody.

Control: PBS only.

Nuclear counter stain: DAPI.

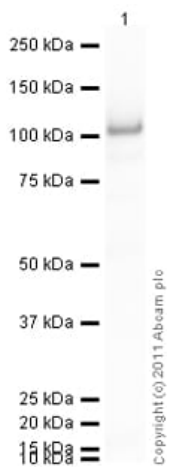


Western blot - Anti-STAT5a antibody [E289]
(ab32043)

Anti-STAT5a antibody [E289] (ab32043) at 1/1000 dilution
(unpurified) + A431 cell lysate

Predicted band size: 91 kDa

Observed band size: 92 kDa



Western blot - Anti-STAT5a antibody [E289]
(ab32043)

Anti-STAT5a antibody [E289] (ab32043) at 1/1000 dilution
(unpurified) + Recombinant Human STAT5a protein ([ab84627](#)) at
0.01 µg

Secondary

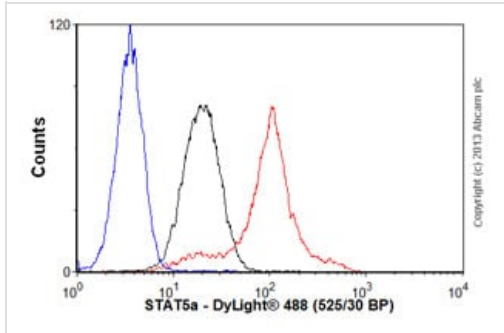
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at
1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 91 kDa

Exposure time: 20 seconds



Flow Cytometry (Intracellular) - Anti-STAT5a antibody [E289] (ab32043)

Overlay histogram showing Jurkat cells stained with unpurified ab32043 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab32043, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) ([ab96899](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line). Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in Jurkat cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

Tissue Microarray (TMA) data for ab32043					
Normal tissue samples			Malignant tissue samples		
Human cardiac muscle	x	Human placenta	x	Clear cell carcinoma of human kidney	x
Human cerebrum	x	Human skeletal muscle	x	Human bladder cancer	x
Human colon	✓	Human skin	✓	Human breast carcinoma	x
Human endometrium	✓	Human spleen	✓	Human cervical carcinoma	x
Human kidney	x	Human stomach	✓	Human colon carcinoma	✓
Human liver	x	Human testis	x	Human endometrial carcinoma	x
Human lung	✓	Human thyroid	x	Human gastric carcinoma	x
Human mammary gland	✓	Human tonsil	✓	Human glioma	x
Human pancreas	x			Human hepatocellular carcinoma	x
				Human lung carcinoma	✓
				Human ovarian carcinoma	x
				Human pancreatic carcinoma	x
				Human prostatic hyperplasia	x
				Human thyroid carcinoma	x

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT5a antibody [E289] (ab32043)

Tissue Microarrays stained for "Anti-STAT5a antibody [E289]" using "ab32043" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). The sections were incubated with ab32043 at +4°C overnight followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer).

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



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Recombinant technology



Success from the first experiment
Confirmed specificity



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Animal-free production

Anti-STAT5a antibody [E289] (ab32043)

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