

### Anti-STAT5a antibody [E289] ab32043

**重组** RabMAb

★★★★★ **2 Abreviews** **33 References** **13 图像**

#### 概述

产品名称	Anti-STAT5a抗体[E289]
描述	兔单克隆抗体[E289] to STAT5a
宿主	Rabbit
特异性	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.
经测试应用	<b>适用于:</b> WB, IHC-P, ICC/IF, IP, Flow Cyt (Intra)
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: A431 cell lysate. IHC-P: Human squamous lung carcinoma. ICC/IF: Jurkat cells. Flow Cyt (intra): Jurkat cells.
常规说明	<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>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆

克隆编号	E289
同种型	IgG

应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab32043于以下的经测试应用

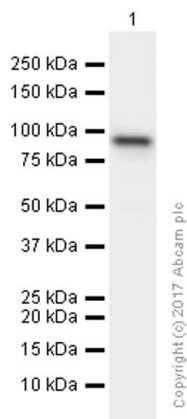
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
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 <a href="#">IHC antigen retrieval protocols</a>
ICC/IF		1/100 - 1/500.
IP		1/20. <b>For unpurified use at 1/80.</b>
Flow Cyt (Intra)		1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.For unpurified use at 1/10.

靶标

功能	Carries out a dual function: signal transduction and activation of transcription. Binds to the GAS element and activates PRL-induced transcription.
序列相似性	Belongs to the transcription factor STAT family. Contains 1 SH2 domain.
翻译后修饰	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.
细胞定位	Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.

图片



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

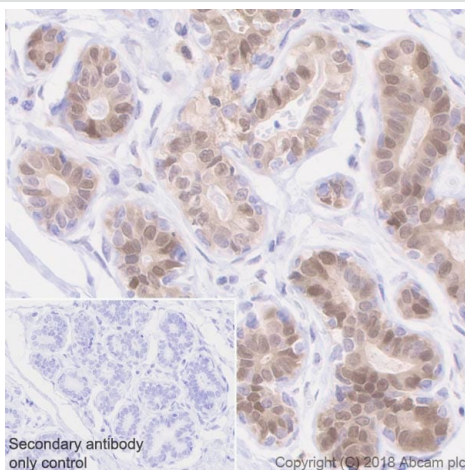
Anti-STAT5a antibody [E289] (ab32043) at 1/20000 dilution  
(purified) + K-562 (Human chronic myelogenous leukemia  
lymphoblast) whole cell lysates at 20 µg

### Secondary

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

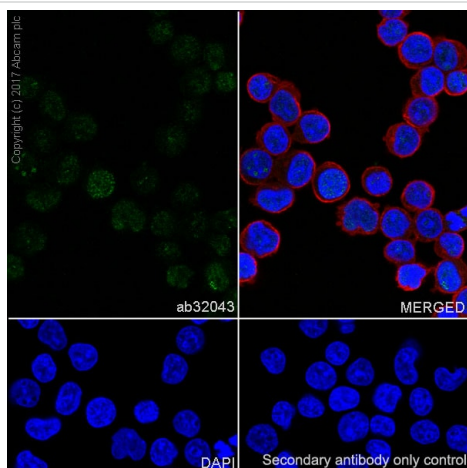
**Predicted band size:** 91 kDa

**Observed band size:** 92 kDa



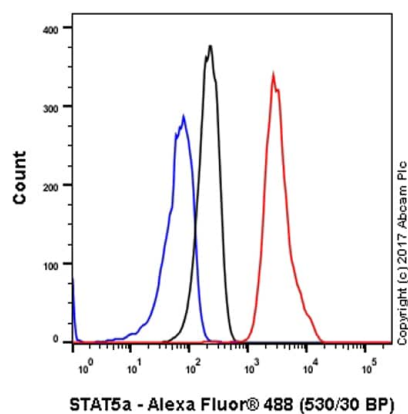
Immunohistochemistry (Formalin/PFA-fixed paraffin-  
embedded sections) - Anti-STAT5a antibody [E289]  
(ab32043)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded  
sections) analysis of human breast tissue sections labeling STAT5a  
with purified ab32043 at 1:1000 dilution (0.12 µg/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.



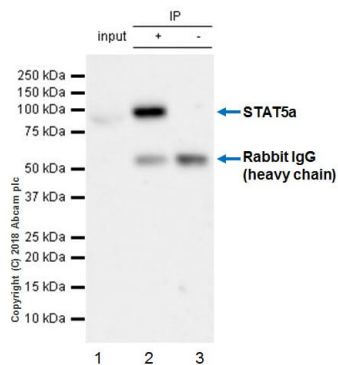
Immunocytochemistry/ Immunofluorescence - Anti-STAT5a antibody [E289] (ab32043)

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)

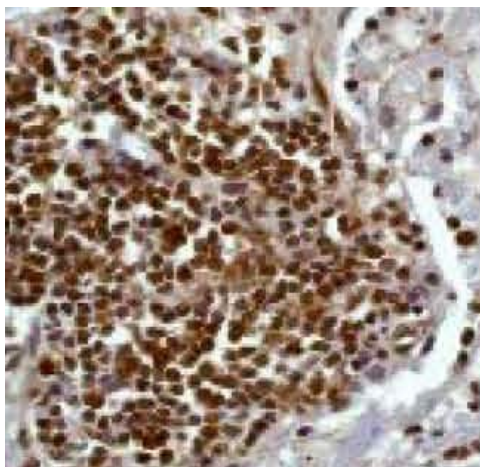
ab32043 (purified) at 1:20 dilution (0.6ug) immunoprecipitating in TF-1 whole cell lysate. TF-1 (Human Erythroleukemia erythroblast) whole cell lysate 10ug

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

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

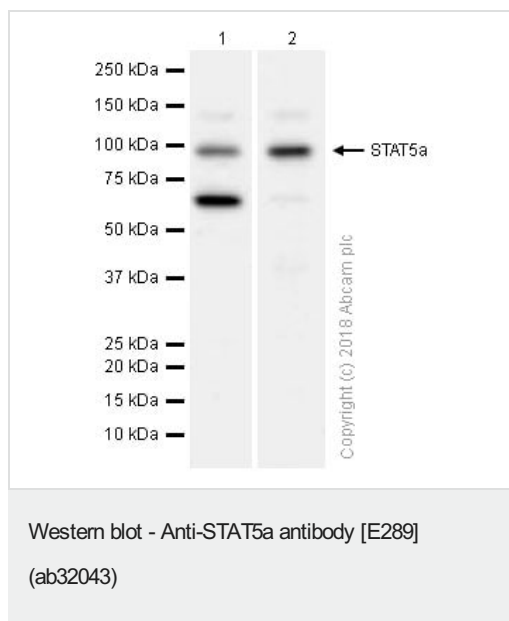
For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.

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).



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

**Lane 1 :** Mouse brain lysates

**Lane 2 :** Rat brain lysates

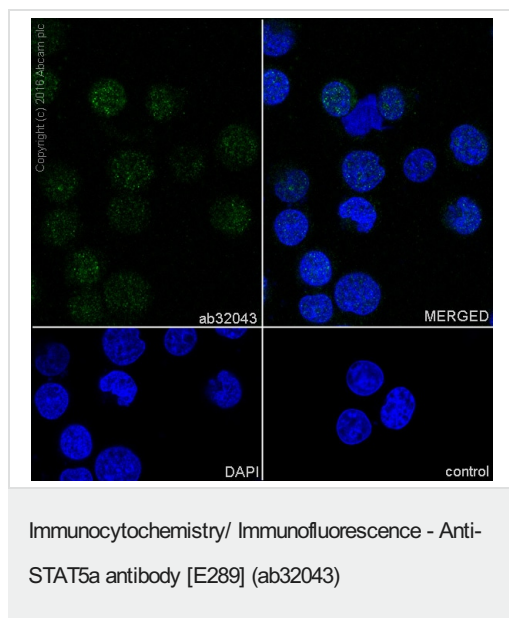
Lysates/proteins at 15 µg per lane.

### 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

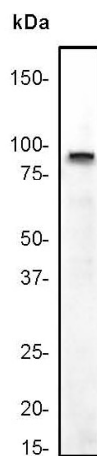
**Observed band size:** 92 kDa



Immunocytochemistry/Immunofluorescence 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.

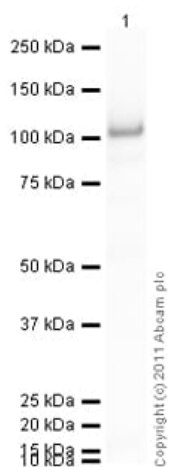


Western blot - Anti-STAT5a antibody [E289]  
(ab32043)

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

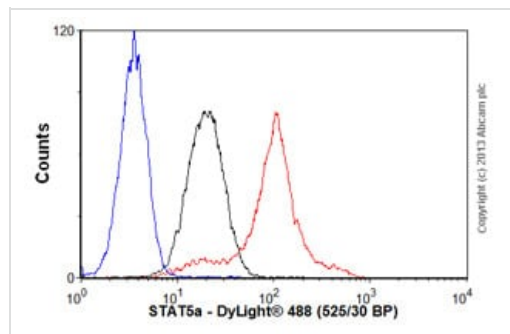
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at  
1/5000 dilution

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/1x10<sup>6</sup> 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



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-STAT5a antibody [E289] (ab32043)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors