

Anti-STAT1 (phospho S727) antibody [EPR3146] ab109461

重组 RabMAb

★★★★☆ **1 Abreviews** **38 References** **11 图像**

概述

产品名称	Anti-STAT1 (phospho S727)抗体[EPR3146]
描述	兔单克隆抗体[EPR3146] to STAT1 (phospho S727)
宿主	Rabbit
特异性	A phospho specific peptide corresponding to residues surrounding Serine 727 of human Stat-1 was used as an immunogen. This antibody only detects Stat-1 phosphorylated at Serine 727.
经测试应用	适用于: WB, IHC-P, ChIC/CUT&RUN-seq, Dot blot 不适用于: ICC/IF
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa cell lysate. Rat and mouse brain lysate. IHC-P: Rat and mouse colon tissue. Human breast carcinoma and stomach adenocarcinoma tissue. ChIC/CUT&RUN-Seq: HeLa cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 59% PBS, 0.05% BSA
纯度	Protein A purified
克隆	单克隆

disseminated but curable infections with tuberculoid granulomas. MSMD is a genetically heterogeneous disease with autosomal recessive, autosomal dominant or X-linked inheritance.

序列相似性

Belongs to the transcription factor STAT family.

Contains 1 SH2 domain.

翻译后修饰

Phosphorylated on tyrosine and serine residues in response to IFN-alpha, IFN-gamma, PDGF and EGF. Phosphorylation on Tyr-701 (lacking in beta form) by JAK promotes dimerization and subsequent translocation to the nucleus. Phosphorylation on Ser-727 by several kinases including MAPK14, ERK1/2 and CAMKII on IFN-gamma stimulation, regulates STAT1 transcriptional activity. Phosphorylation on Ser-727 promotes sumoylation though increasing interaction with PIAS. Phosphorylation on Ser-727 by PKCdelta induces apoptosis in response to DNA-damaging agents.

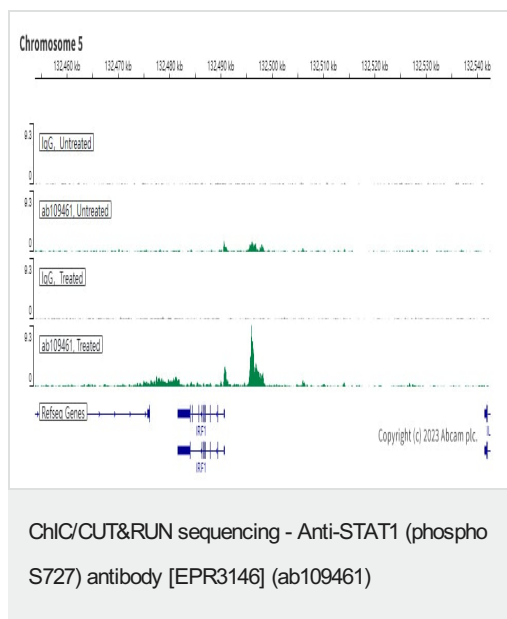
Sumoylated by SUMO1, SUMO2 and SUMO3. Sumoylation is enhanced by IFN-gamma-induced phosphorylation on Ser-727, and by interaction with PIAS proteins. Enhances the transactivation activity.

ISGylated.

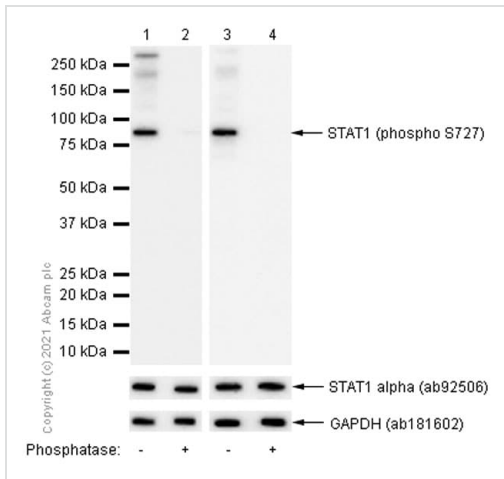
细胞定位

Cytoplasm. Nucleus. Translocated into the nucleus in response to IFN-gamma-induced tyrosine phosphorylation and dimerization.

图片



ChIC/CUT&RUN was performed using a pAG-MNase at a final concentration of 700 ng/mL, 2 x 10⁵ HeLa (Human cervix adenocarcinoma epithelial cell line) treated with IFN gamma (50ng/ml 1h) cells and 5µg of ab109461 [EPR3146]. The resulting DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 10 million reads. The negative IgG control **ab172730** is also shown. Additional screenshots of mapped reads can be downloaded [here](#). The University of Geneva owns patents relevant to ChIC (Chromatin Immuno-Cleavage) methods.



Western blot - Anti-STAT1 (phospho S727) antibody [EPR3146] (ab109461)

All lanes : Anti-STAT1 (phospho S727) antibody [EPR3146] (ab109461) at 1/1000 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate (treated with Alkaline Phosphatase for 1 hour)

Lane 3 : Mouse brain lysate

Lane 4 : Mouse brain lysate (treated with Alkaline Phosphatase for 1 hour)

Lysates/proteins at 15 µg per lane.

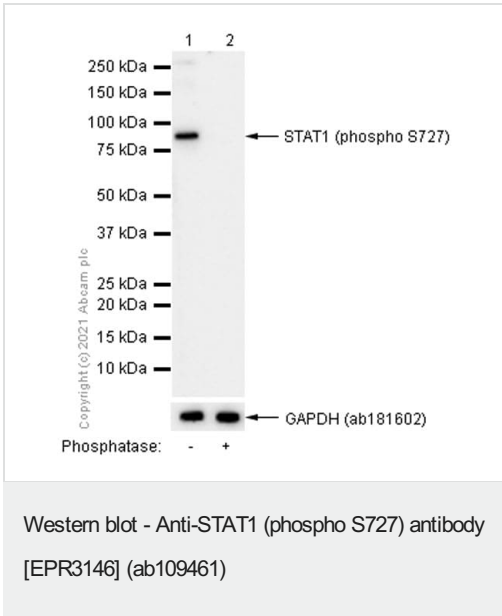
Secondary

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

Predicted band size: 87 kDa

Observed band size: 91 kDa

Blocking buffer: 5% NFDN/TBST.



All lanes : Anti-STAT1 (phospho S727) antibody [EPR3146] (ab109461) at 1/1000 dilution

Lane 1 : Rat brain lysate

Lane 2 : Rat brain lysate (treated with Alkaline Phosphatase for 1 hour)

Lysates/proteins at 15 µg per lane.

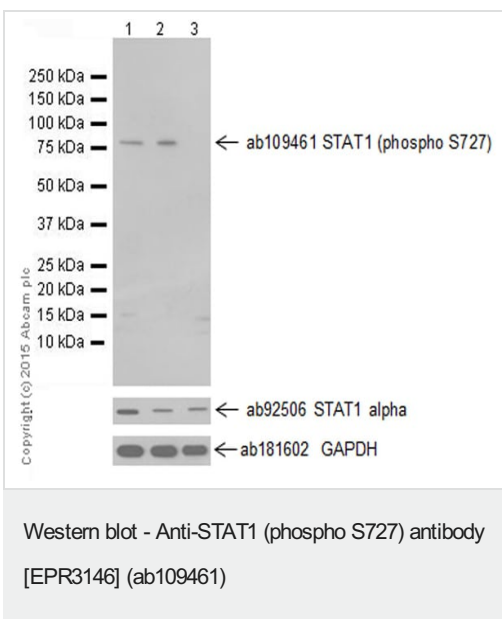
Secondary

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

Predicted band size: 87 kDa

Observed band size: 91 kDa

Blocking buffer: 5% NFDM/TBST.



All lanes : Anti-STAT1 (phospho S727) antibody [EPR3146] (ab109461) at 1/5000 dilution (purified)

Lane 1 : Untreated HeLa whole cell lysate

Lane 2 : HeLa whole cell lysate treated with etoposide

Lane 3 : HeLa whole cell lysate treated with etoposide, followed by membrane treatment with phosphatase

Lysates/proteins at 10 µg per lane.

Secondary

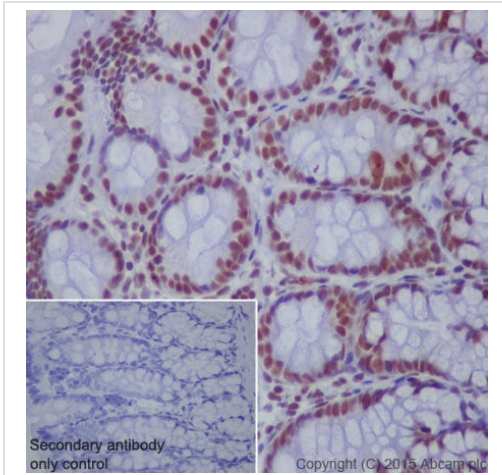
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 87 kDa

Observed band size: 90 kDa

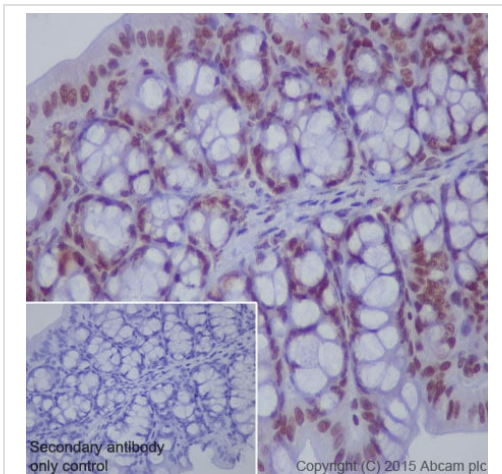
Blocking buffer: 2% BSA/TBST

Dilution buffer: 2% BSA/TBST



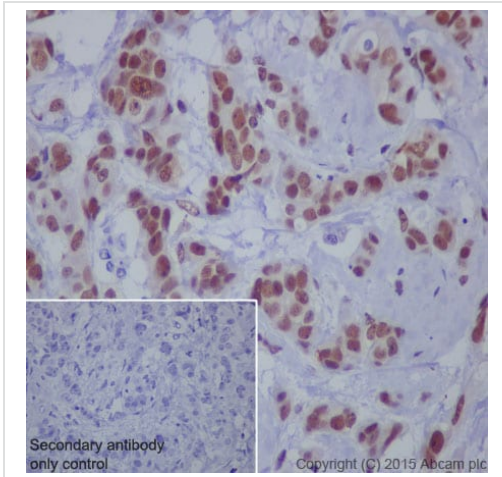
Immunohistochemical staining of paraffin embedded rat colon with purified ab109461 at a working dilution of 1/200. The secondary antibody used is **ab97051**, a goat anti-rabbit IgG (H&L) at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT1 (phospho S727) antibody [EPR3146] (ab109461)



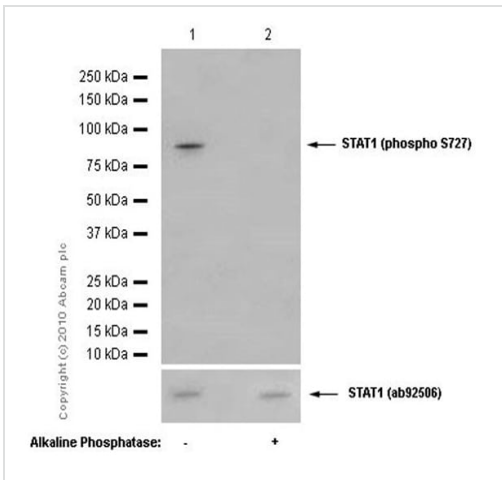
Immunohistochemical staining of paraffin embedded mouse colon with purified ab109461 at a working dilution of 1/200. The secondary antibody used is **ab97051**, a goat anti-rabbit IgG (H&L) at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT1 (phospho S727) antibody [EPR3146] (ab109461)



Immunohistochemical staining of paraffin embedded human breast carcinoma with purified ab109461 at a working dilution of 1/200. The secondary antibody used is **ab97051**, a goat anti-rabbit IgG (H&L) at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT1 (phospho S727) antibody [EPR3146] (ab109461)



Western blot - Anti-STAT1 (phospho S727) antibody [EPR3146] (ab109461)

All lanes : Anti-STAT1 (phospho S727) antibody [EPR3146] (ab109461) at 1/10000 dilution (unpurified)

Lane 1 : Untreated HeLa (human cervix adenocarcinoma)

Lane 2 : HeLa (human cervix adenocarcinoma) membrane treated with Alkaline Phosphatase

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1500 dilution

Developed using the ECL technique.

Predicted band size: 87 kDa

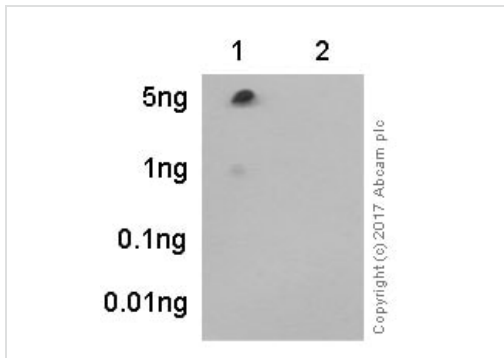
Observed band size: 91 kDa

Exposure time: 30 seconds

The lower section shows STAT1 detected with **ab92506**, anti-STAT1 antibody, to confirm that the same amount of lysate is used

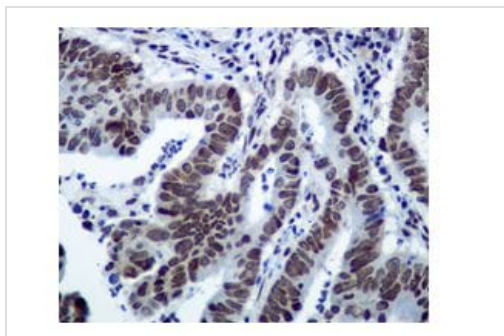
in each lane.

Blocking and dilution biffer: 5% NFDm/TBST.



Dot Blot - Anti-STAT1 (phospho S727) antibody [EPR3146] (ab109461)





Dot Blot analysis of Lane 1: STAT1 (pS727) phospho peptide and Lane 2: STAT1 non-phospho peptide, labeling STAT1 (phospho S727) with ab109461 at 1/1000 dilution. 5% NFDm/TBST was used as the blocking and diluting buffer. **ab97051**, a Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated secondary antibody was used at 1/100000 dilution. Exposure time: 3 minutes.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT1 (phospho S727) antibody [EPR3146] (ab109461)

Unpurified ab109461, at a 1/100 dilution, staining STAT1 (phospho S727) in paraffin embedded Human stomach adenocarcinoma tissue by Immunohistochemistry.

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-STAT1 (phospho S727) antibody [EPR3146] (ab109461)

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