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Datasheet for ABIN6255995 anti-STAT3 antibody (pTyr705)

| 8 Images |
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Publications

3



Overview

| Quantity: | 100 µL |
|----------------------|---|
| Target: | STAT3 |
| Binding Specificity: | pTyr705 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This STAT3 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC) |

Product Details

| Immunogen: | A synthesized peptide derived from human STAT3 around the phosphorylation site of Tyr705. |
|-----------------------|---|
| lsotype: | lgG |
| Specificity: | Phospho-STAT3 (Tyr705) Antibody detects endogenous levels of STAT3 only when phosphorylated at Tyrosine 705. |
| Predicted Reactivity: | Pig,Zebrafish,Bovine,Horse,Sheep,Rabbit,Chicken |
| Purification: | The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns. |

Target Details

| Target: |
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STAT3

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN6255995 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

| Alternative Name: | STAT3 (STAT3 Products) |
|-------------------|---|
| Background: | Description: Signal transducer and transcription activator that mediates cellular responses to |
| | interleukins, KITLG/SCF, LEP and other growth factors (PubMed:10688651, PubMed:12359225, |
| | PubMed:12873986, PubMed:15194700, PubMed:17344214, PubMed:18242580, |
| | PubMed:23084476). Once activated, recruits coactivators, such as NCOA1 or MED1, to the |
| | promoter region of the target gene (PubMed:17344214). May mediate cellular responses to |
| | activated FGFR1, FGFR2, FGFR3 and FGFR4 (PubMed:12873986). Binds to the interleukin-6 (IL- |
| | 6)-responsive elements identified in the promoters of various acute-phase protein genes |
| | (PubMed:12359225). Activated by IL31 through IL31RA (PubMed:15194700). Acts as a |
| | regulator of inflammatory response by regulating differentiation of naive CD4+ T-cells into T- |
| | helper Th17 or regulatory T-cells (Treg): deacetylation and oxidation of lysine residues by |
| | LOXL3, leads to disrupt STAT3 dimerization and inhibit its transcription activity |
| | (PubMed:28065600). Involved in cell cycle regulation by inducing the expression of key genes |
| | for the progression from G1 to S phase, such as CCND1 (PubMed:17344214). Mediates the |
| | effects of LEP on melanocortin production, body energy homeostasis and lactation (By |
| | similarity). May play an apoptotic role by transctivating BIRC5 expression under LEP activation |
| | (PubMed:18242580). Cytoplasmic STAT3 represses macroautophagy by inhibiting |
| | EIF2AK2/PKR activity (PubMed:23084476). Plays a crucial role in basal beta cell functions, such |
| | as regulation of insulin secretion (By similarity). |
| | Gene: STAT3 |
| Molecular Weight: | 86kDa |
| Gene ID: | 6774 |
| UniProt: | P40763 |
| Pathways: | JAK-STAT Signaling, RTK Signaling, Interferon-gamma Pathway, Neurotrophin Signaling |
| | Pathway, Dopaminergic Neurogenesis, Response to Growth Hormone Stimulus, Carbohydrate |
| | Homeostasis, Stem Cell Maintenance, Hepatitis C, Protein targeting to Nucleus, Feeding |
| | |

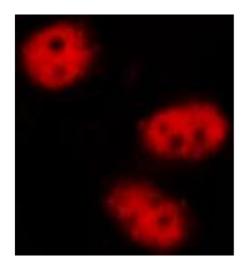
Application Details

| Application Notes: | WB 1:500-1:2000, IHC 1:50-1:200, IP, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000 |
|--------------------|---|
| Restrictions: | For Research Use only |

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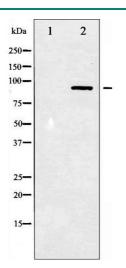
| Format: | Liquid |
|--------------------|---|
| Concentration: | 1 mg/mL |
| Buffer: | Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store at -20 °C. Stable for 12 months from date of receipt. |
| Expiry Date: | 12 months |
| Publications | |
| Product cited in: | Grundmann, Schutkowski, Schreier, Rabe, König, Gekle, Stangl: "Vitamin D Receptor Deficiency Does Not Affect Blood Pressure and Heart Function." in: Frontiers in physiology , Vol. 10, pp. 1118, (2019) (PubMed). |
| | Galan, Lozano, Piñeiro, Martinez-Salas: "G3BP1 interacts directly with the FMDV IRES and negatively regulates translation." in: The FEBS journal , Vol. 284, Issue 19, pp. 3202-3217, (2017) (PubMed). |

Images



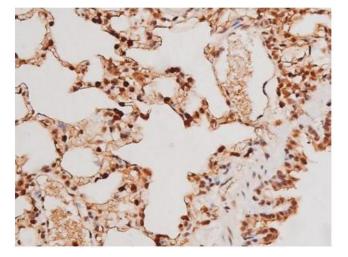
Immunofluorescence (fixed cells)

Image 1. ABIN6267502 staining LOVO by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



Western Blotting

Image 2. Western blot analysis of STAT3 phosphorylation expression in HeLa whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



Immunohistochemistry

Image 3. ABIN6267502 at 1/200 staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the product details page for more images. Overall 8 images are available for ABIN6255995.