Datasheet for ABIN7209532

anti-STAT3 antibody (pSer727)

5 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	STAT3
Binding Specificity:	pSer727
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STAT3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Stat3 (phospho Ser727) Polyclonal Antibody
Immunogen:	Synthesized peptide derived from human Stat3 Phospho-Ser727
Isotype:	IgG
Specificity:	Phospho-Stat3 (S727) Polyclonal Antibody detects endogenous levels of Stat3 protein only when phosphorylated at S727.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen

Target Details

Target:	STAT3

Target Details

Alternative Name:	Stat3 (STAT3 Products)
Background:	Rabbit Anti-Stat3 (phospho Ser727) Polyclonal Antibody,STAT3, APRF, Signal transducer and activator of transcription 3, Acute-phase response factor,Signal transducer and activator of transcription 3 encoded by STAT3 is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. Signal transducer and activator of transcription 3 is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. Signal transducer and activator of transcription 3 mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Mutations in STAT3 are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.,Signal transducer and activator of transcription 3
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 Behaviour, CXCR4-mediated Signaling Events, Signaling of Hepatocyte Growth Factor Receptor

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:500-1:2000), IF (1:50-1:200), IHC-P (1:100-1:300), IP (2-5 µg/mg lysate), ELISA (1:10000). Not yet tested in other applications.
Restrictions:	For Research Use only

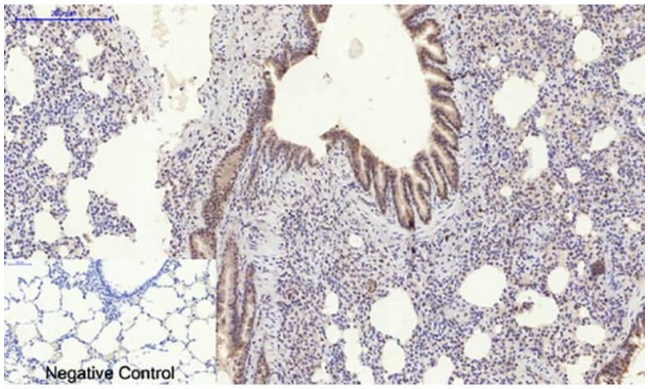
Handling

Format:	Liquid
Concentration:	1 mg/mL

Handling

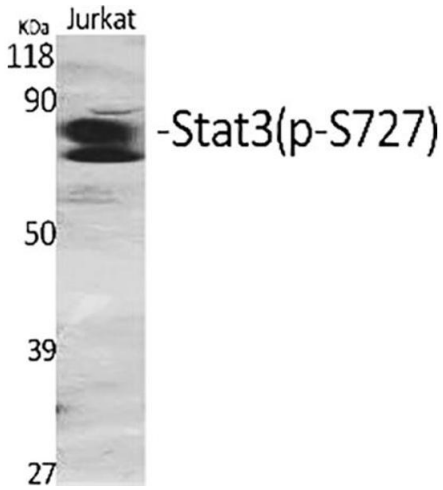
Buffer:	PBS containing 50 % Glycerol, 0.5 % BSA and 0.02 % Sodium Azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

Images



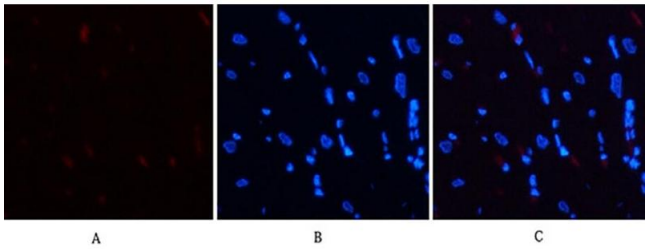
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded rat lung tissue. 1, Stat3 (phospho Ser727) Polyclonal Antibody was diluted at 1:200 (4 °C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98 °C, 20 min). 3, secondary antibody was diluted at 1:200 (room temperature, 30 min). Negative control was used by secondary antibody only.



Western Blotting

Image 2. Western Blot analysis of various cells using Phospho-Stat3 (S727) Polyclonal Antibody diluted at 1:2000.



Immunofluorescence

Image 3. Immunofluorescence analysis of rat heart tissue. 1, Stat3 (phospho Ser727) Polyclonal Antibody (red) was diluted at 1:200 (4 °C, overnight). 2, Cy3 Labeled secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B.

Please check the product details page for more images. Overall 5 images are available for ABIN7209532.