Datasheet for ABIN6148568

anti-STAT3 antibody (AA 640-770)

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Overview

Quantity:	100 µL
Target:	STAT3
Binding Specificity:	AA 640-770
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STAT3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 640-770 of human STAT3 (NP_644805.1).
Sequence:	YTKQQLNNMS FAEIIMGYKI MDATNILVSP LVYLYPDIPK EEAFGKYCRP ESQEHPEADP GSAAPYLKTK FICVTPTTCS NTIDLPMSPR TLDSLMQFGN NGEGAEPSAG GQFESLTFDM ELTSECATSP M
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	STAT3

Target Details

Alternative Name:	STAT3 (STAT3 Products)
Background:	The protein encoded by this gene 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. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein 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 this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.,ADMIO,ADMIO1,APRF,HIES,STAT3,Stat3,Epigenetics & Nuclear Signaling,Transcription Factors,Cancer,Signal Transduction,ErbB-HER Signaling Pathway,MAPK-Erk Signaling Pathway,MAPK-JNK Signaling Pathway,Cell Biology & Developmental Biology,Apoptosis,Inhibition of Apoptosis,Microtubules,Immunology & Inflammation,IL-6 Receptor Signaling Pathway,Stem Cells,Embryonic Stem Cells,Cardiovascular,Heart,Cardiogenesis,Hypertrophy,STAT3
Molecular Weight:	83 kDa/87 kDa/88 kDa
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:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

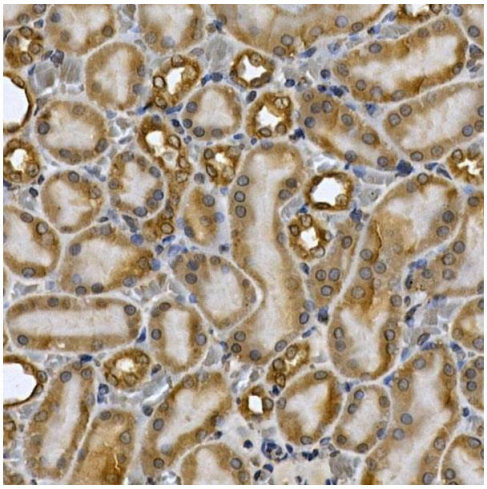
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
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. Avoid freeze / thaw cycles.

Publications

Product cited in:	Qian, Fan, Liu, Wu, Zhang, Cui, Zhou, Hu, Wei, Chen, Li, Qian: "Seneca Valley Virus Suppresses Host Type I Interferon Production by Targeting Adaptor Proteins MAVS, TRIF, and TANK for Cleavage." in: **Journal of virology**, Vol. 91, Issue 16, (2017) (PubMed).

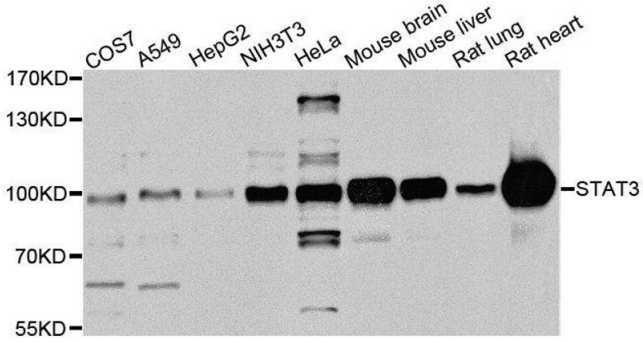
Images



Immunohistochemistry

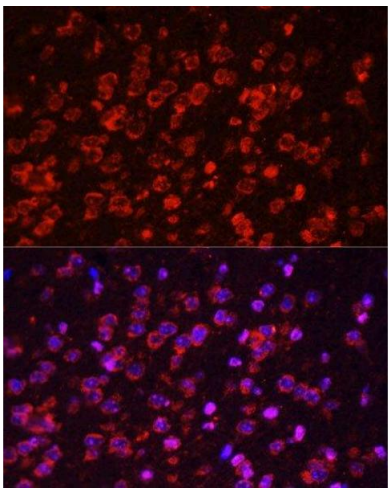
Image 1. Immunohistochemistry of paraffin-embedded rat kidney using [KO Validated] ST Rabbit pAb (ABIN6132553, ABIN6148568, ABIN6148571 and ABIN6215503) at dilution of 1:250 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Images



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using STAT3 antibody.



Immunofluorescence

Image 3. Immunofluorescence analysis of mouse brain using STAT3 antibody.

Please check the product details page for more images. Overall 7 images are available for ABIN6148568.