

JAK1(Phospho-Tyr1034) Antibody

Catalog No: #11149

Package Size: #11149-1 50ul #11149-2 100ul

Description

Product Name	JAK1(Phospho-Tyr1034) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	IF;WB;IP;IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of JAK1 only when phosphorylated at tyrosine 1034.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 1034 (K-E-Y(p)-Y-T) derived from Human JAK1.
Conjugates	Unconjugated
Target Name	JAK1
Modification	Phospho
Other Names	Janus kinase 1
Accession No.	Swiss-Prot: P23458NCBI Protein: NP_002218.2
Calculated MW	132kD
Concentration	1.0mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

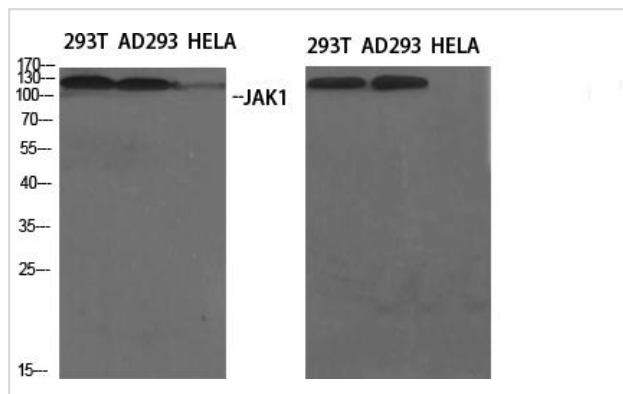
Application Details

WB 1:200-1:1000;

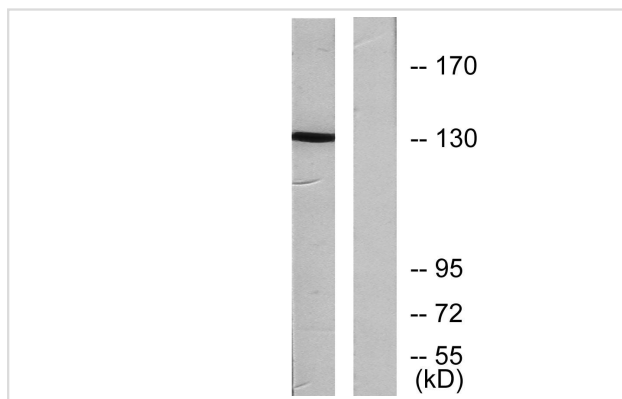
IHC 1:100-1:300;

IF 1:50-200

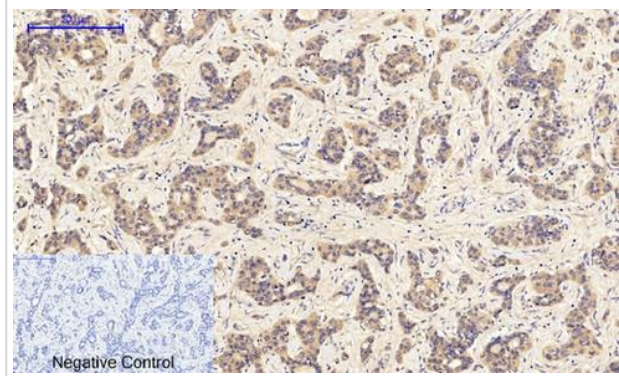
Images



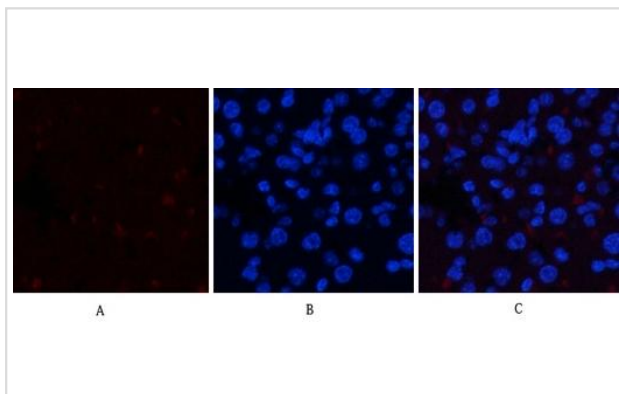
Western Blot analysis of various cells using Phospho-JAK1 (Y1034) Polyclonal Antibody diluted at 1:500



Western blot analysis of lysates from A549 cells , using JAK1 (Phospho-Tyr1034) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded Human-liver-cancer tissue. 1,JAK1 (phospho Tyr1034) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunofluorescence analysis of mouse-liver tissue. 1,JAK1 (phospho Tyr1034) Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

Background

This gene encodes a membrane protein that is a member of a class of protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. The encoded kinase phosphorylates STAT proteins (signal transducers and activators of transcription) and plays a key role in interferon-alpha/beta and interferon-gamma signal transduction. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016],

Published Papers

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[PMID:31594861](#)

et al., Zap70 functions to maintain stemness of mouse embryonic stem cells by negatively regulating Jak1/Stat3/c-Myc signaling. In Stem Cells on 2010 Sep by Young Cha ,

Bo-hyun Moon, et al..PMID:20641039, , (2010)

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el at., Down-regulation of JAK1 by RNA interference inhibits growth of the lung cancer cell line A549 and interferes with the PI3K/mTOR pathway. In J Cancer Res Clin Oncol

on 2011 Nov by Dan Liu, Yi Huang, et al..PMID:21861134, , (2011)

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[PMID:33805945](#)

Ighodaro Igbe;XiaoFei Shen;Wei Jiao;Zhe Qiang;Teng Deng;Sheng Li;WanLi Liu;HanWei Liu;GuoLin Zhang;Fei Wang el at., Dietary quercetin potentiates the antiproliferative effect of interferon-α in hepatocellular carcinoma cells through activation of JAK/STAT pathway signaling by inhibition of SHP2 phosphatase, , (2017)

[PMID:29371942](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.