

## JAK1(Phospho-Tyr1034) Antibody

Catalog No: #11149



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

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

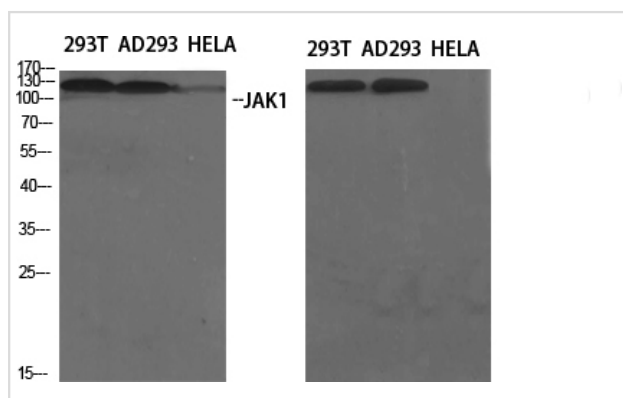
## Description

|                       |   |
|-----------------------|---|
| Product Name          | JAK1(Phospho-Tyr1034) Antibody  |
| Host Species          | Rabbit  |
| Clonality             | Polyclonal  |
| Purification          | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates.<br>Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide. |
| Applications          | WB IHC IF   |
| Species Reactivity    | Human;Mouse;Rat   |
| 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   |
| 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.   |

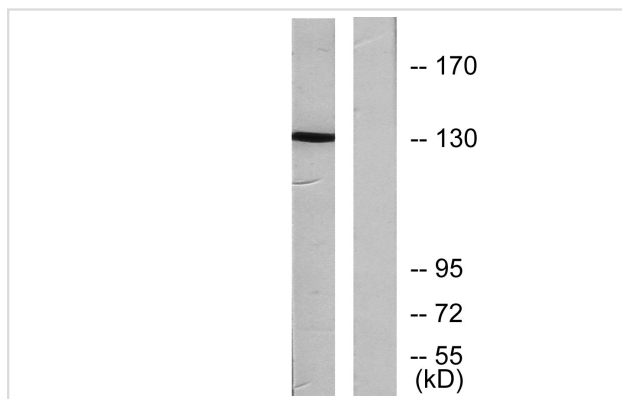
## Application Details

WB 1:200-1:1000; IHC 1:100-1:300; IF 1:50-200

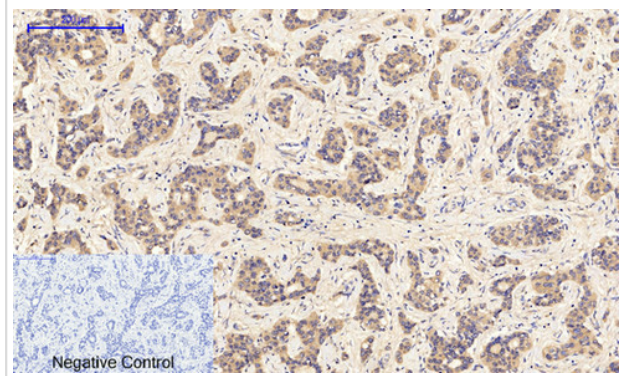
## Images



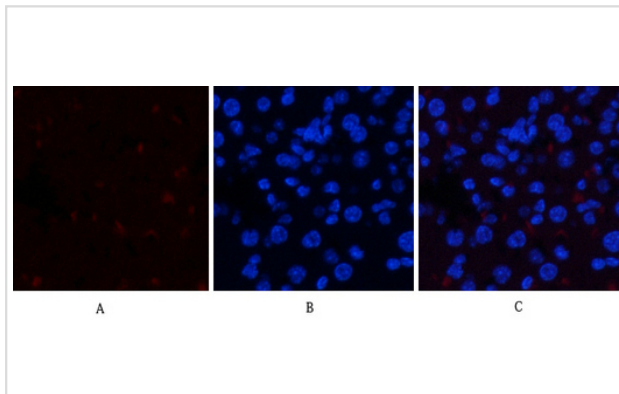
Western Blot analysis of various cells using Phospho-JAK1 (Y1034) Polyclonal Antibody diluted at 1:500



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

Tyrosine kinase of the non-receptor type, involved in the IFN- $\alpha$ /beta/gamma signal pathway. Kinase partner for the interleukin (IL)-2 receptor.

Zheng H, et al.(2005)Mol Cell Proteomics. 4(6):721-730.

Wang R, et al.(2003) Arch Biochem Biophys. 410(1): 7-15.

## Published Papers

YOUNG CHA, BO-HYUN MOON, MI-OK LEE et al., Zap70 Functions to Maintain Stemness of Mouse Embryonic Stem Cells by Negatively Regulating Jak1/Stat3/c-Myc Signaling., STEM CELLS., 28(9):1476-1486(2010)

[PMID:20641039](#)

et al., A thiazole-derived oridonin analogue exhibits antitumor activity by directly and allosterically inhibiting STAT3. In J Biol Chem on 2019 Nov 15; by Shen X, Zhao L, et al..PMID:31594861, (2019)

[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)

[PMID:20641039](#)

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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)

[PMID:21861134](#)

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el at., Notch-induced hIL-6 production facilitates the maintenance of self-renewal of hCD34+ cord blood cells through the activation of Jak-PI3K-STAT3 pathway. In Am J Pathol

on 2012 Jan by Bongkum Choi, Eunyoung Chun, et al..PMID:22062221, , (2012)

[PMID:22062221](#)

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el at., Activation of Janus kinase 1 confers poor prognosis in patients with non-small cell lung cancer. In Oncol Lett on 2017 Oct by Dan Liu, Yi Huang, et al..PMID: 28989534, , (2017)

[PMID:28989534](#)

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el at., Salinomycin promotes T-cell proliferation by inhibiting the expression and enzymatic activity of immunosuppressive indoleamine-2,3-dioxygenase in human breast cancer cells. In Toxicol Appl Pharmacol on 2020 Oct 1 by Yuwen Sheng, Zhonghui Zhang, et al..PMID:32822738, , (2020)

[PMID:32822738](#)

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el at., A 2-Benzylmalonate Derivative as STAT3 Inhibitor Suppresses Tumor Growth in Hepatocellular Carcinoma by Upregulating  $\beta$ -TrCP E3 Ubiquitin Ligase. In Int J Mol Sci on 2021

Mar 25 by Ting Peng, Orawan Wonganan, et al..PMID:33805945, , (2021)

[PMID:33805945](#)

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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- $\alpha$  in hepatocellular carcinoma cells through activation of JAK/STAT pathway signaling by inhibition of SHP2 phosphatase, , (2017)

[PMID:29371942](#)

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