

## JAK1(Phospho-Tyr1022) Antibody

Catalog No: #11149

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

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	JAK1(Phospho-Tyr1022) 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	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of JAK1 only when phosphorylated at tyrosine 1022.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 1022 (K-E-Y(p)-Y-T) derived from Human JAK1.
Target Name	JAK1
Modification	Phospho
Other Names	Janus kinase 1
Accession No.	Swiss-Prot: P23458NCBI Protein: NP_002218.2
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

## Application Details

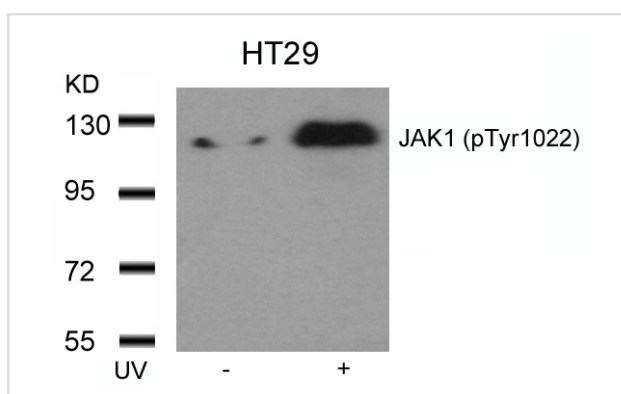
Predicted MW: 130kd

Western blotting: 1:500~1:1000

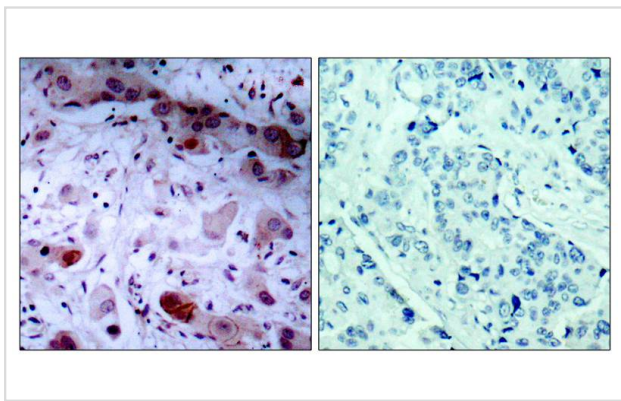
Immunohistochemistry: 1:50~1:100

IF 1:50 - 1:200

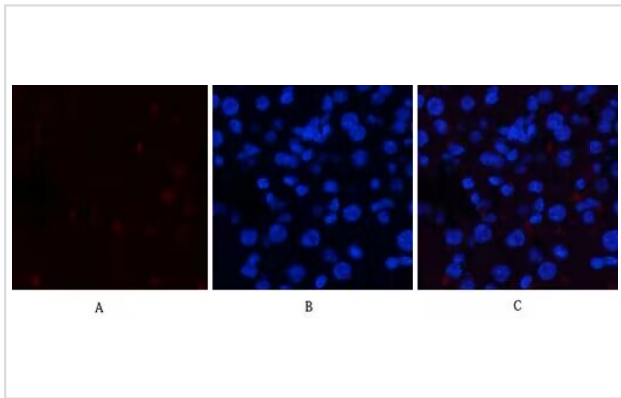
## Images



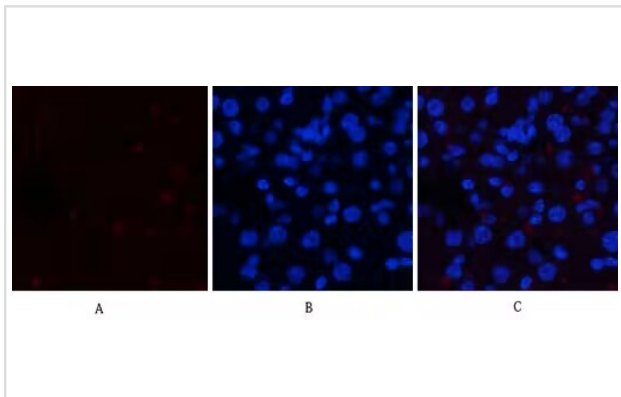
Western blot analysis of extracts from HT29 cells untreated or treated with UV using JAK1(Phospho-Tyr1022) Antibody #11149.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using JAK1(Phospho-Tyr1022) Antibody #11149(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence analysis of mouse-liver tissue. JAK1 (phospho Tyr1022) Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight).



Immunofluorescence analysis of mouse-liver tissue. 1,JAK1 (phospho Tyr1022) Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight).

## 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

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[PMID:33805945](#)

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)

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el at., 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](#)

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](#)

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](#)

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](#)

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](#)

el at., 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)

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

[PMID:20641039](#)

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