Product Datasheet

JAK2(Phospho-Tyr1007/1008) Rabbit mAb

Catalog No: #13352

Package Size: #13352-1 50ul #13352-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	JAK2(Phospho-Tyr1007/1008) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SY24-03
Isotype	IgG
Purification	ProA affinity purified
Applications	WB;ICC/IF;IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Tyr1007 and 1008 of human JAK2.
Conjugates	Unconjugated
Target Name	JAK2
Other Names	JAK 2 antibody JAK-2 antibody JAK2 antibody JAK2_HUMAN antibody Janus Activating Kinase 2 antibody Janus kinase 2 (a protein tyrosine kinase) antibody Janus kinase 2 antibody JTK 10 antibody JTK10 antibody kinase Jak2 antibody OTTHUMP00000043260 antibody THCYT3 antibody Tyrosine protein kinase JAK2 antibody Tyrosine-protein kinase JAK2 antibody
Accession No.	Swiss-Prot#:O60674
Calculated MW	130 kDa
SDS-PAGE MW	130 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

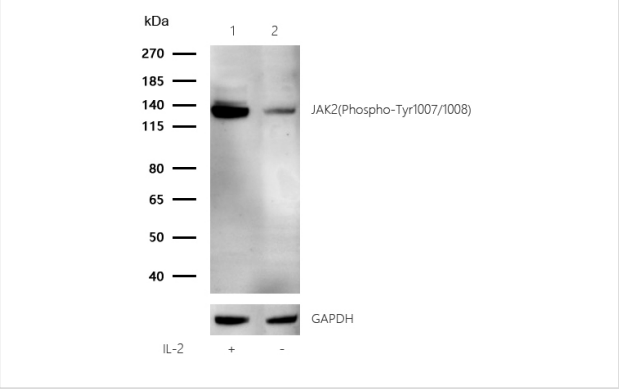
Application Details

WB: 1:500-1:2000

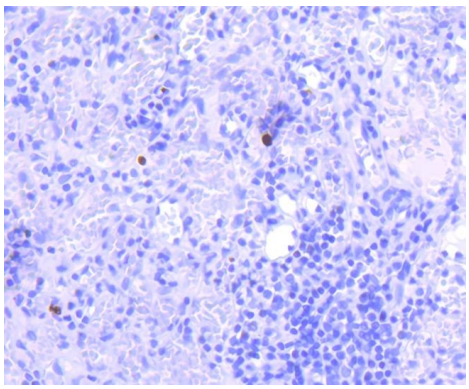
ICC/IF: 1:50-1:200

IHC: 1:50-1:200

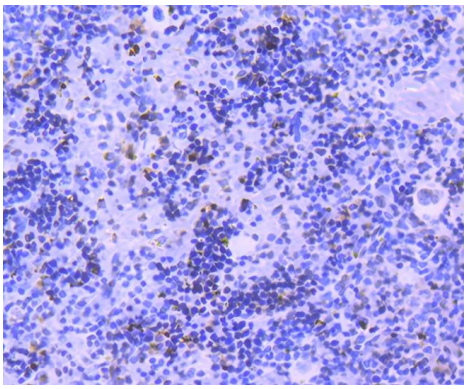
Images



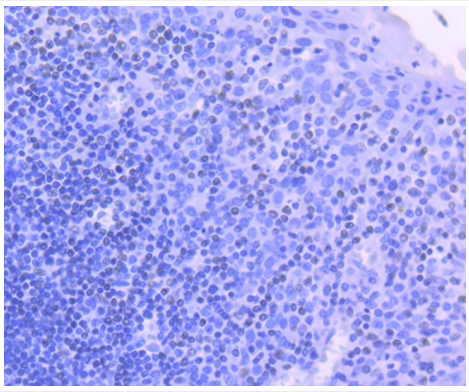
All lanes : JAK2(Phospho-Tyr1007/1008) Rabbit mAb at 1/1k dilutionLane 1 : K562 treated with 50ng/ml IL-2 for 10min whole cell lysatesLane 2 : K562 whole cell lysatesLysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 130 kDa
Observed band size: 130 kDaExposure time: 10 seconds



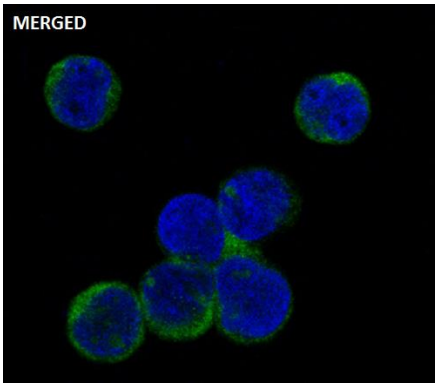
Formalin-fixed;paraffin-embedded human spleen tissue stained for JAK2(Phospho-Y1007/Y1008) using 13352 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed;paraffin-embedded mouse spleen tissue stained for JAK2(Phospho-Y1007/Y1008) using 13352 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed;paraffin-embedded human tonsil tissue stained for JAK2(Phospho-Y1007/Y1008) using 13352 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence
JAK2(Phospho-Y1007/Y1008) antibody (13352)
ICC/IF staining of AK2(Phospho-Y1007/Y1008) in Jurkat cells.
Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.
Samples were incubated with 13352 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit;used at a dilution of 1/500.
Nuclei were counterstained with DAPI.

Background

JAK2 (Janus Kinase 2) belongs to the emerging family of non-receptor Janus tyrosine kinases, which regulate a spectrum of cellular functions downstream of activated cytokine receptors in the lympho-hematopoietic system. Immuno-logical stimuli, such as interferons and cytokines, induce recruitment of Stat transcription factors to cytokine receptor-associated JAK2. JAK2 then phosphorylates proximal Stat factors, which subsequently dimerize, translocate to the nucleus and bind to cis elements upstream of target gene promoters to regulate transcription. The canonical JAK-Stat pathway is integral to maintaining a normal immune system by stimulating proliferation, differentiation, survival, and host resistance to pathogens. Altering JAK-Stat signaling to reduce cytokine induced pro-inflammatory responses represents an attractive target for anti-inflammatory therapies. Within the JAK2 kinase domain, there is a region that has considerable sequence homology to the regulatory region of the insulin receptor. Among a

variety of sites, Tyrosines 1007 and 1008 are sites of trans- or autophosphorylation in vivo and in in vitro kinase reactions.

References

1. Ruiz PA & Jarai G Discoidin domain receptors regulate the migration of primary human lung fibroblasts through collagen matrices. Fibrogenesis Tissue Repair 5:3 (2012).
2. Ruiz PA & Jarai G Collagen I Induces Discoidin Domain Receptor (DDR) 1 Expression through DDR2 and a JAK2-ERK1/2-mediated Mechanism in Primary Human Lung Fibroblasts. J Biol Chem 286:12912-23 (2011).

Published Papers

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

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