

## Phospho-JAK2(Y1007+Y1008) Rabbit mAb

Catalog No: #13352

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

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

## Description

Product Name	Phospho-JAK2(Y1007+Y1008) Rabbit mAb
Clone No.	SY24-03
Purification	ProA affinity purified
Applications	WB, ICC, IHC, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Tyr1007 and 1008 of human 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
Uniprot	O60674
GeneID	3717;
Calculated MW	130 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

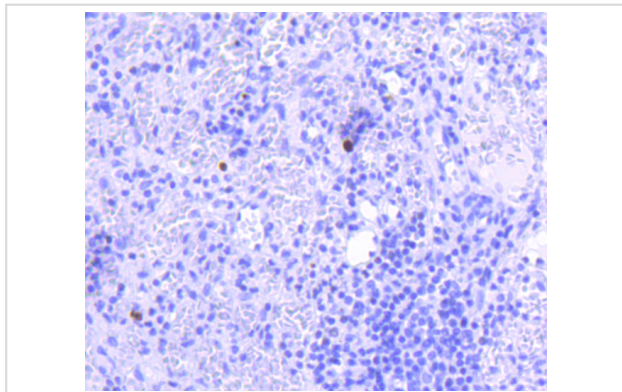
## Application Details

WB: 1:500-1:1,000

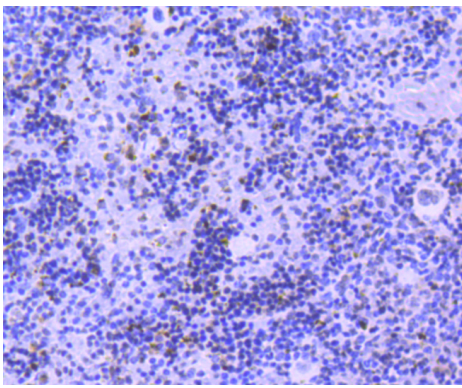
IHC: 1:50-1:200

ICC: 1:50-1:200

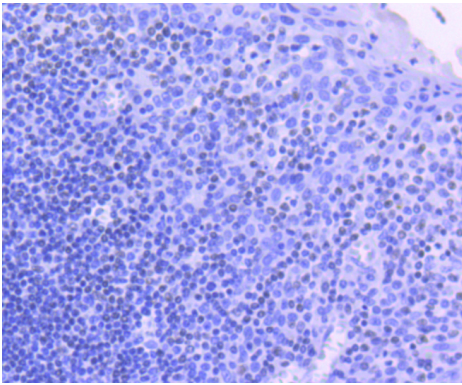
## Images



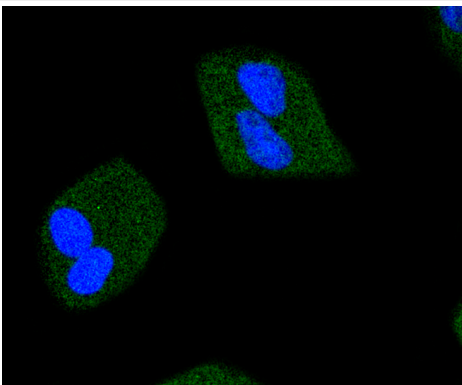
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Phospho-JAK2(Y1007+Y1008) antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-Phospho-JAK2(Y1007+Y1008) antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Phospho-JAK2(Y1007+Y1008) antibody. Counter stained with hematoxylin.



ICC staining Phospho-JAK2(Y1007+Y1008) in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

## 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 vitro kinase reactions.

## References

Note: This product is for in vitro research use only