

## Anti-Phospho-JAK2 (Tyr1007, 1008) Antibody (1D853)

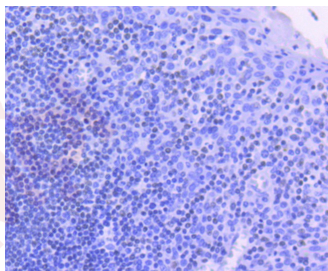
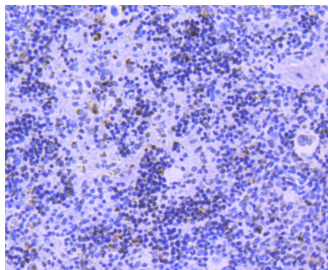
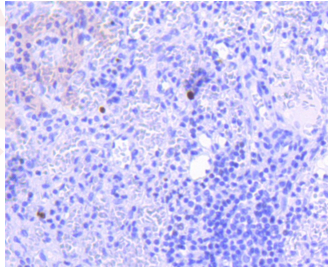
### Product Details

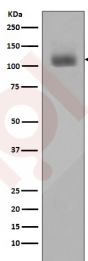
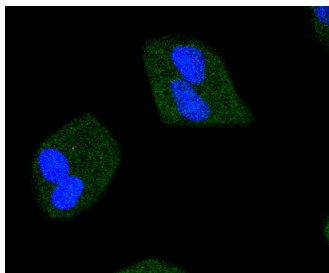
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 130 kDa.
Clone:	1D853
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Phospho-JAK2 (Y1007+Y1008) antibody. Counter stained with hematoxylin.
2. Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-Phospho-JAK2 (Y1007+Y1008) antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Phospho-JAK2 (Y1007+Y1008) antibody. Counter stained with hematoxylin.
4. 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.
5. Western blot analysis of JAK2 phosphorylation expression in Jurkat cell lysates treated with Pervanadate.





Application: ICC,IHC,IP,WB

Recommended WB: 1:500-1000; IHC: 1:50-200; ICC: 1:50-200

## Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

## Antigen Details

Immunogen: A synthesized phosphopeptide: human JAK2 around the phosphorylation site of Tyr1007 and 1008

Antigen Species: Human

Uniprot ID: O60674

Synonyms: JAK2 (p-Tyr1007, 1008);JAK2 (p-Y1007, 1008);p-JAK2 (Y1007, 1008);p-JAK2 (Tyr1007, 1008)

## Research 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 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.

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