

JAK2 polyclonal antibody

Catalog: BCP00994

Host: Rabbit

Reactivity: Human, Mouse, Rat

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. Immunological 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.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 130 kDa

Swiss-Prot:

O60674

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:2000~1:5000

IF: 1:50~1:200

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

Specificity:

JAK2 polyclonal antibody detects endogenous levels of JAK2 protein.

DATA:

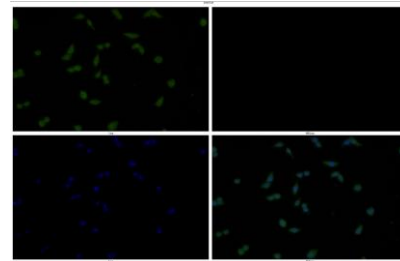
Western blot (WB) analysis of JAK2 pAb at 1:2000 dilution

Lane1:Hela whole cell lysate(40ug)

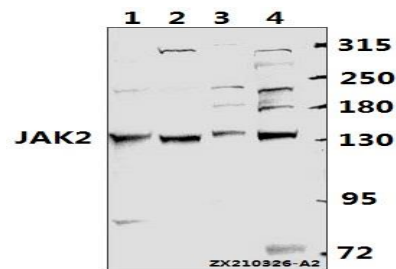
Lane2:U-87MG whole cell lysate(40ug)

Lane3:AML-12 whole cell lysate(40ug)

Lane4:H9C2 whole cell lysate(40ug)



Immunofluorescence analysis of MCF-7 cells using JAK2 antibody at dilution of 1:50.



Note:

For research use only, not for use in diagnostic procedure.