

JAK2 (R564) polyclonal antibody

Catalog: BS2432

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:

~ 125 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: 1:500~1:1000

IHC: 1:50~1:200

IF: 1:50~1:200

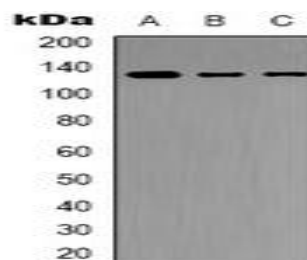
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

JAK2 (R564) polyclonal antibody detects endogenous levels of JAK2 protein.

DATA:

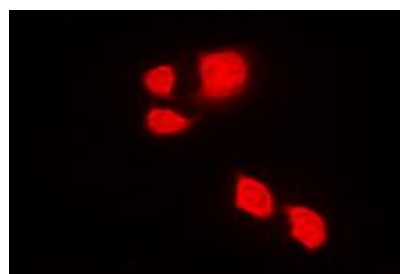


Western blot (WB) analysis of JAK2 (R564) polyclonal antibody at 1:500 dilution

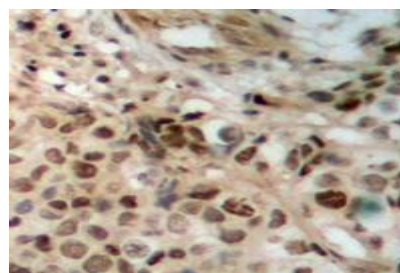
LaneA: Jurkat whole cell lysate

LaneB: K562 whole cell lysate

LaneC: HEK293T whole cell lysate



Immunofluorescence analysis of Jurkat cells using JAK2 antibody at dilution of 1:50.



Immunohistochemistry of paraffin-embedded human breast cancer using JAK2 antibody at dilution of 1:50.

Note:

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

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