bs-23003R

[Primary Antibody]

JAK2 Rabbit pAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Polyclonal
GeneID: 3717
SWISS: O60674
Target: JAK2
Immunogen: KLH conjugated synthetic peptide derived from human JAK2: 251-350/1132.
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background: This gene product is a protein tyrosine kinase involved in a specific subset of cytokine receptor signaling pathways. It has been found to be constituitively associated with the prolactin receptor and is required for responses to gamma interferon. Mice that do not express an active protein for this gene exhibit embryonic lethality associated with the absence of definitive erythropoiesis. [provided by RefSeq, Jul 2008]

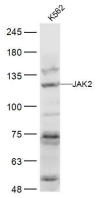
Applications: **WB** (1:200-1000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)
ICC/IF (1:100)

Reactivity: Human, Rat (predicted: Mouse, Rabbit, Pig, Sheep, Cow, Horse)

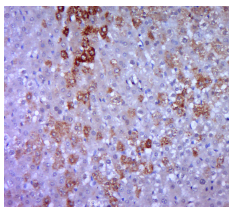
Predicted MW.: 131 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

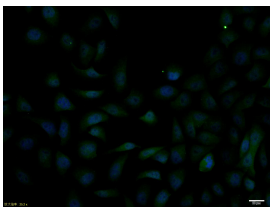
VALIDATION IMAGES



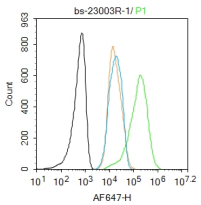
Sample: K562(Human) Cell Lysate at 30 ug
Primary: Anti-JAK2 (bs-23003R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 131 kD
Observed band size: 131 kD



Paraformaldehyde-fixed, paraffin embedded (rat liver tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (JAK2) Polyclonal Antibody, Unconjugated (bs-23003R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (JAK2) polyclonal Antibody, Unconjugated (bs-23003R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control:HL-60 Primary Antibody (green line): Rabbit Anti-JAK2 antibody (bs-23003R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for

20 min at-20°C.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=8.724]** Yong Tang. et al. Phosphorylation inhibition of protein-tyrosine phosphatase 1B tyrosine-152 induces bone regeneration coupled with angiogenesis for bone tissue engineering. Bioact Mater. 2021 Jul;6:2039 WB ;Mouse. 33511306
- **[IF=7.5]** Junchao Wu. et al. JAK1/JAK2 degraders based on PROTAC for topical treatment of atopic dermatitis. BIOMED PHARMACOTHER. 2024 Feb;171:116167 WB,IHC ;Mouse. 38262152
- **[IF=5.561]** Xinyang Fan. et al. CEBPA-Regulated Expression of SOCS1 Suppresses Milk Protein Synthesis through mTOR and JAK2-STAT5 Signaling Pathways in Buffalo Mammary Epithelial Cells. FOODS. 2023 Jan;12(4):708 WB ;Bovine. 36832783
- **[IF=5.81]** Jingjing Lu. et al. Polysaccharides From the Aerial Parts of Tetrastigma Hemsleyanum Diels et Gilg Induce Bidirectional Immunity and Ameliorate LPS-Induced Acute Respiratory Distress Syndrome in Mice.. Front Pharmacol. 2022 Mar;13:838873-838873 WB ;Mouse. 35370633
- **[IF=5.223]** Xinyang Fan. et al. MiR-190a regulates milk protein biosynthesis through the mTOR and JAK2–STAT5 signaling pathways by targeting PTHLH in buffalo mammary epithelial cells. J FUNCT FOODS. 2023 Mar;102:105451 WB ;Bovine. 10.1016/j.jff.2023.105451