

**bs-3206R****[ Primary Antibody ]****phospho-JAK2 (Tyr221) Rabbit pAb****Bioss**  
**ANTIBODIES**

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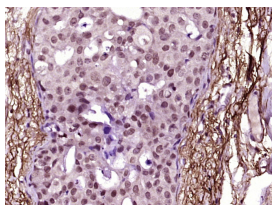
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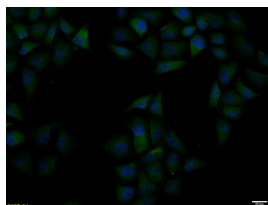
400-901-9800

**— DATASHEET —**

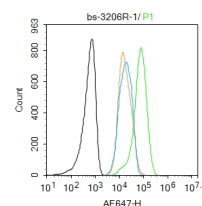
<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 3717 <b>Target:</b> phospho-JAK2 (Tyr221) <b>Immunogen:</b> KLH conjugated synthesised phosphopeptide derived from human JNK2 around the phosphorylation site of Tyr221: IQD(p-Y)HI. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 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. <b>Background:</b> This gene product is a protein tyrosine kinase involved in a specific subset of cytokine receptor signaling pathways. It has been found to be constitutively 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]	<b>Isotype:</b> IgG  <b>SWISS:</b> O60674	<b>Applications:</b> <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500) <b>Flow-Cyt</b> (1µg/Test) <b>ICC/IF</b> (1:100)  <b>Reactivity:</b> Human, Zebrafish (predicted: Mouse, Rat, Pig, Dog, Horse)  <b>Predicted MW.:</b> 131 kDa  <b>Subcellular Location:</b> Cell membrane ,Cytoplasm ,Nucleus
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**— VALIDATION IMAGES —**

Paraformaldehyde-fixed, paraffin embedded (Human breast carcinoma); 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 (phospho-JAK2(Tyr221)) Polyclonal Antibody, Unconjugated (bs-3206R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions 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 (phospho-JAK2 (Tyr221)) polyclonal Antibody, Unconjugated (bs-3206R) 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-phospho-JAK2 (Tyr221) antibody (bs-3206R) Dilution: 1µg /10<sup>6</sup> 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=11]** Hao Li. et al. Somatic PDGFRB activating variants promote smooth muscle cell phenotype modulation in intracranial fusiform aneurysm. J BIOMED SCI. 2024 Dec;31(1):1-17 IF ;Mouse. 38741091
- **[IF=5.4]** Cong Meng. et al. Enhancing Liver Delivery of Gold Nanoclusters via Human Serum Albumin Encapsulation for Autoimmune Hepatitis Alleviation. PHARMACEUTICS. 2024 Jan;16(1):110 WB ;Mouse. 10.3390/pharmaceutics16010110

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=4.8]** Yingjin Liang, et al. Qingfei Jiedu Huatan Formula inhibits NLRP3 inflammasome activation to attenuates inflammation and pyroptosis in severe pneumonia: Integrating experimental verification, network pharmacology and transcriptomics... JOURNAL OF ETHNOPHARMACOLOGY. 2025 Mar 13;343:119449. Western blot ;Rat. 39947373
- **[IF=3.837]** Park GB et al. MicroRNA-503-5p Inhibits the CD97-Mediated JAK2/STAT3 Pathway in Metastatic or Paclitaxel-Resistant Ovarian Cancer Cells. Neoplasia. 2019 Feb;21(2):206-215. WB ;Human. 30622051
- **[IF=4.4]** Yuanxin Zhang, et al. Mechanism of total saponins of *Ranunculus ternatus* Thunb. in treatment of breast cancer based on liquid chromatography–mass spectrometry and network analysis. FRONT PHARMACOL. 2025 Apr;16: WB ;Human. 40351419