bs-1439R **[Primary Antibody]**

JAK1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3716 **SWISS:** P23458

Target: JAK1

Immunogen: KLH conjugated synthetic peptide derived from human JAK1: 901-1135/1135.

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: Janus kinase 1 (JAK1) is a member of a new class of non-receptor protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. The second phosphotransferase domain bears all the hallmarks of a protein kinase, although its structure differs significantly from that of the PTK and threonine/serine kinase family members. JAK1 is a large, widely expressed membrane-associated phosphoprotein. It is involved in the interferon-alpha/beta and -gamma signal transduction pathways. The reciprocal interdependence between JAK1 and TYK2 activities in the interferon-alpha pathway, and between JAK1 and JAK2 in the interferon-gamma pathway, may reflect a requirement for these kinases in the correct assembly of interferon recpeptor complexes. These kinases couple cytokine ligand binding to tyrosine phosphorylation of various known signaling proteins and a unique family of transcription factors termed the signal transducers and activators of transcription, or STATs.

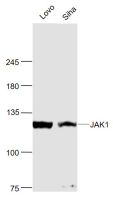
Applications: **WB** (1:500-2000)
Flow-Cyt (1ug/Test)

Reactivity: Human

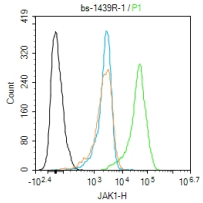
Predicted MW.: 133 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Lovo(Human) Cell Lysate at 30 ug Siha(Human) Cell Lysate at 30 ug Primary: Anti-JAK1 (bs-1439R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 133 kD Observed band size: 120 kD



Blank control: Jurkat. Primary Antibody (green line): Rabbit Anti-JAK1 antibody (bs-1439R) Dilution: 1ug/Test; Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/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=6.656]** Dong-qin Xu. et al. Pentoxifylline attenuates nonalcoholic fatty liver by inhibiting hepatic macrophage polarization to the M1 phenotype. PHYTOMEDICINE. 2022 Aug;:154368 FCM ;Mouse. 35994850
- **[IF=6.63]** Guo, Zhi-chen. et al. Porphyromonas gingivalis promotes the progression of oral squamous cell carcinoma by activating the neutrophil chemotaxis in the tumour microenvironment. CANCER IMMUNOL IMMUN. 2022 Dec;:1-17 WB ;Mouse. 36513851
- **[IF=6.291]** Changjiang Liu. et al. Cypermethrin triggers YY1-mediated testosterone biosynthesis suppression. Ecotox Environ Safe. 2021 Dec;225:112792 WB ;Rat. 10.1016/j.ecoenv.2021.112792
- **[IF=6.304]** Chen Y et al. Dendritic cells-derived interferon-λ1 ameliorated inflammatory bone destruction through inhibiting osteoclastogenesis. Cell Death Dis. 2020 Jun 2;11(6):414. WB ;Mouse. 32488049
- **[IF=4.546]** Bin Zeng. et al. Dietary Soy Protein Isolate Attenuates Intestinal Immunoglobulin and Mucin Expression in Young Mice Compared with Casein. Nutrients. 2020 Sep;12(9):2739 WB ;Mouse. 32911830