bs-3238R **[Primary Antibody]**

phospho-Jak1 (Tyr1034 + Tyr1035) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3716 **SWISS:** P23458

Target: Jak1 (Tyr1034 + Tyr1035)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human Jak1 around the phosphorylation site of Tyr1034 + Tyr1035: KE(p-Y)(p-Y)TV.

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.

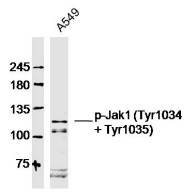
Applications: **WB** (1:500-2000)
Flow-Cyt (2μg /Test)

Reactivity: Human (predicted: Mouse, Rat, Pig, Cow)

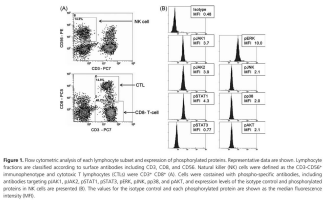
Predicted MW.: 133 kDa

Subcellular Location: Cytoplasm

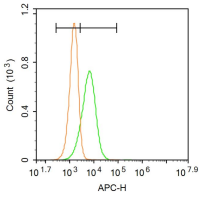
VALIDATION IMAGES



Sample:A549 (Human)cell Lysate at 40 ug Primary: Anti-p-Jak1(Tyr1034 + Tyr1035)(bs-3238R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution Predicted band size: 133kD Observed band size: 133kD



From 《Cancer Medicine》(2016.6): PublitionDirect effect of dasatinib on signal transduction pathways associated with a rapid mobilization of cytotoxic lymphocytes , IF:2.5 Author: Noriyoshi Iriyama, Yoshihiro Hatta & Masami Takei Division of Hematology and Rheumatology, Department of Medicine, Nihon University School of Medicine, Tokyo, Japan



Blank control: HUVEC. Primary Antibody (green line): Rabbit Anti-Phospho-Jak1 antibody (bs-3238R) 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 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=7.9]** Tiantian Wang. et al. Baicalein alleviates cardiomyocyte death in EAM mice by inhibiting the JAK-STAT1/4 signalling pathway. PHYTOMEDICINE. 2024 Jun;128:155558 WB ;Mouse. 38547614
- **[IF=7.419]** Houpan Song. et al. Traditional Chinese Medicine prescription Huang-Qi-Jian-Zhong-Tang ameliorates indomethacin-induced duodenal ulcers in rats by affecting NF-κB and STAT signaling pathways. BIOMED PHARMACOTHER. 2022 Dec;156:113866 IF ;Rat. 36228371
- **[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=6.656]** Tingting Wang. et al. Pulsatilla chinensis saponins ameliorated murine depression by inhibiting intestinal inflammation mediated IDO1 overexpression and rebalancing tryptophan metabolism. PHYTOMEDICINE. 2023 May;:154852 WB ;Mouse. 37167824
- **[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