

Phospho-Jak1-Y1034/Y1035 Rabbit pAb

Catalog No.: AP0530 **17 Publications**

Basic Information

Observed MW

133kDa

Calculated MW

133kDa

Category

Primary antibody

Applications

WB,IF/ICC,ELISA

Cross-Reactivity

Human, Mouse

Background

This gene encodes a membrane protein that is a member of a class of protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. The encoded kinase phosphorylates STAT proteins (signal transducers and activators of transcription) and plays a key role in interferon-alpha/beta, interferon-gamma, and cytokine signal transduction. This gene plays a crucial role in effecting the expression of genes that mediate inflammation, epithelial remodeling, and metastatic cancer progression. This gene is a key component of the interleukin-6 (IL-6)/JAK1/STAT3 immune and inflammation response and is a therapeutic target for alleviating cytokine storms. The kinase activity of this gene is directly inhibited by the suppressor of cytokine signalling 1 (SOCS1) protein. Alternative splicing results in multiple transcript variants.

Recommended Dilutions

WB 1:500 - 1:1000

IF/ICC 1:50 - 1:200

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

3716

Swiss Prot

P23458

Immunogen

A synthetic phosphorylated peptide around Y1034 & Y1035 of human JAK1 (NP_002218.2).

Synonyms

JTK3; AIIDE; JAK1A; JAK1B; Phospho-Jak1-Y1034/1035

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

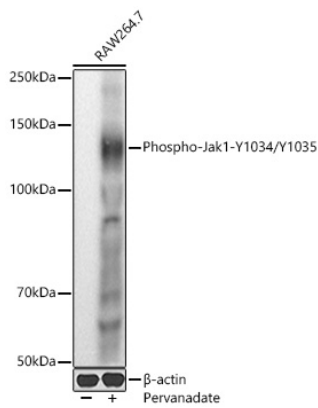
Affinity purification

Storage

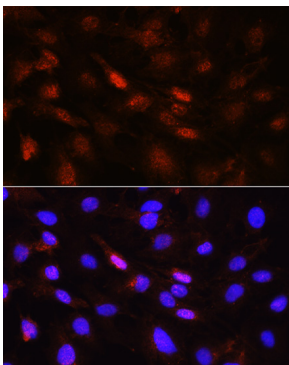
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Validation Data



Western blot analysis of lysates from RAW264.7 cells, using Phospho-Jak1-Y1034/Y1035 Rabbit pAb (AP0530) at 1:1000 dilution. RAW264.7 cells were treated by Pervanadate (1 mM) at 37°C for 30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Immunofluorescence analysis of NIH/3T3 cells using Phospho-Jak1-Y1034/Y1035 Rabbit pAb (AP0530) at dilution of 1:100. Blue: DAPI for nuclear staining.