

# Phospho-Jak1-Y1034/Y1035 Rabbit pAb

Catalog No.: AP0530

17 Publications

## Basic Information

**Observed MW**

130kDa

**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**

Synthetic peptide. This information is considered to be commercially sensitive.

**Synonyms**

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

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

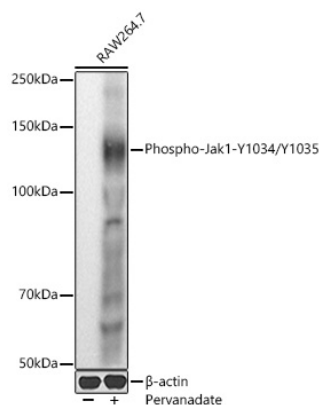
Affinity purification

**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 with Pervanadate (1 mM) at 37°C for 30 minutes.

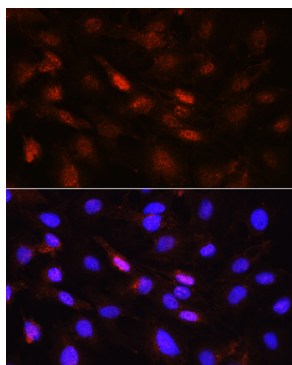
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

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.