

Phospho-Jak1-Y1034/Y1035 Rabbit mAb

Catalog No.: AP1664**Recombinant**

Basic Information

Observed MW

130 kDa

Calculated MW

133 kDa

Category

Monoclonal Antibodies

Applications

WB, ELISA

Cross Reactivity

Human, Mouse

Clone No.

ARC3497

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- α /beta, interferon- γ , 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 1:2000 - 1:5000**ELISA**

Recommended starting concentration is 1 μ g/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ($\geq 1:10000$), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID

3716

Swiss-Prot

P23458

Immunogen

This information is considered to be commercially sensitive.

Synonyms

JTK3; AIIDE; JAK1A; JAK1B; JAK1

Contact

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Product Information

Source

Rabbit

Isotype

IgG

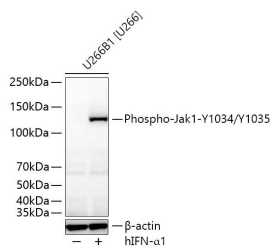
Purity

Affinity purification

Storage

Store at -20°C

Validation Data



Western blot analysis of lysates from U266B1 [U266] cells using Phospho-Jak1-Y1034/Y1035 Rabbit mAb (AP1664) at 1:5000 dilution incubated overnight at 4°C. U266B1 [U266] cells were treated with hIFN- α 1 (50 ng/mL) for 15 minutes after serum starvation overnight.

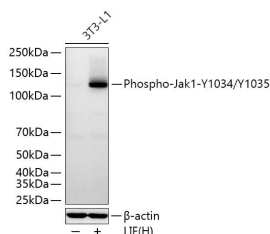
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 μ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 90 s.



Western blot analysis of lysates from 3T3-L1 cells using Phospho-Jak1-Y1034/Y1035 Rabbit mAb (AP1664) at 1:5000 dilution incubated overnight at 4°C. 3T3-L1 cells were treated with LIF(H) (50 ng/mL) for 10 minutes after serum starvation overnight.

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

Lysates/proteins: 30 μ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 90 s.