

# Phospho-Jak1-Y1022/1023 Rabbit mAb

**Catalog No.:** AP1469 **Recombinant**

## Basic Information

**Observed MW**

133kDa

**Calculated MW**

133kDa

**Category**

Primary antibody

**Applications**

WB,IF/ICC,ELISA,ChIP

**Cross-Reactivity**

Human, Mouse

**CloneNo number**

ARC3266

## 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.

**ChIP** 3µg antibody for 5µg-10µg of Chromatin

## Contact

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## Immunogen Information

**Gene ID**

3716

**Swiss Prot**

P23458

**Immunogen**

A peptide corresponding to amino acids 1030-1039 of P23458. This site is commonly referred to as pY1022/pY1023 in the literature.

**Synonyms**

JTK3; AIIDE; JAK1A; JAK1B; JAK1

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

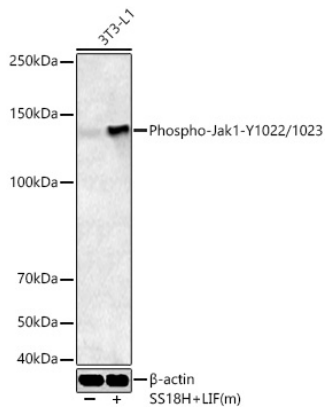
Affinity purification

**Storage**

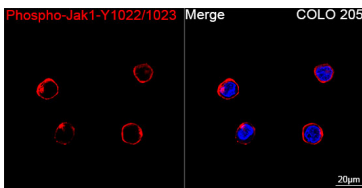
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

## Validation Data



Western blot analysis of lysates from 3T3-L1 cells using Phospho-Jak1-Y1022/1023 Rabbit mAb (AP1469) at 1:3000 dilution incubated at room temperature for 1.5 hours. 3T3-L1 cells were treated by SS18H+LIF(m) (25 ng/ml) for 30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 45s.



Confocal imaging of COLO 205 cells using Phospho-Jak1-Y1022/1023 Rabbit mAb (AP1469, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.