

Phospho-JAK2-Y1007/1008 Rabbit mAb

Catalog No.: AP1467

Recombinant

1 Publications

Basic Information

Observed MW

Refer to figures

Calculated MW

131kDa

Category

Primary antibody

Applications

ELISA,DB,IHC-P,IF/ICC

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC3261

Background

This gene encodes a non-receptor tyrosine kinase that plays a central role in cytokine and growth factor signalling. The primary isoform of this protein has an N-terminal FERM domain that is required for erythropoietin receptor association, an SH2 domain that binds STAT transcription factors, a pseudokinase domain and a C-terminal tyrosine kinase domain. Cytokine binding induces autophosphorylation and activation of this kinase. This kinase then recruits and phosphorylates signal transducer and activator of transcription (STAT) proteins. Growth factors like TGF-beta 1 also induce phosphorylation and activation of this kinase and translocation of downstream STAT proteins to the nucleus where they influence gene transcription. Mutations in this gene are associated with numerous inflammatory diseases and malignancies. This gene is a downstream target of the pleiotropic cytokine IL6 that is produced by B cells, T cells, dendritic cells and macrophages to produce an immune response or inflammation. Disregulation of the IL6/JAK2/STAT3 signalling pathways produces increased cellular proliferation and myeloproliferative neoplasms of hematopoietic stem cells. A nonsynonymous mutation in the pseudokinase domain of this gene disrupts the domains inhibitory effect and results in constitutive tyrosine phosphorylation activity and hypersensitivity to cytokine signalling. This gene and the IL6/JAK2/STAT3 signalling pathway is a therapeutic target for the treatment of excessive inflammatory responses to viral infections. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Recommended Dilutions

DB	1:500 - 1:1000
IHC-P	1:500 - 1:1000
IF/ICC	1:500 - 1:1000

Immunogen Information

Gene ID

3717

Swiss Prot

O60674

Immunogen

A synthetic phosphorylated peptide around Y1007 & Y1008 of human JAK2 (NP_004963.1).

Synonyms

JTK10; JAK2

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

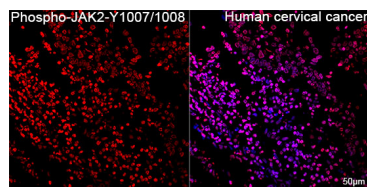
Affinity purification

Storage

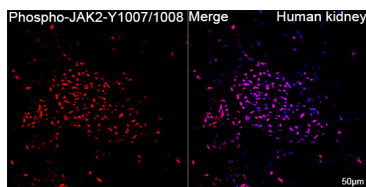
Store at -20°C. Avoid freeze / thaw cycles.

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

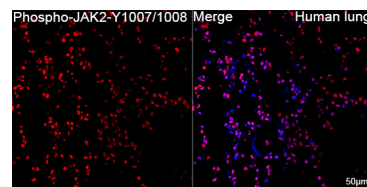
Validation Data



Confocal imaging of paraffin-embedded Human cervical cancer tissue using Phospho-JAK2-Y1007/1008 Rabbit mAb (AP1467, dilution 1:1000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



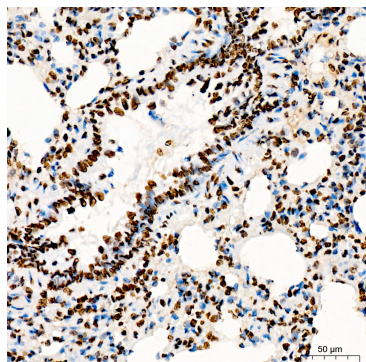
Confocal imaging of paraffin-embedded Human kidney tissue using Phospho-JAK2-Y1007/1008 Rabbit mAb (AP1467, dilution 1:1000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



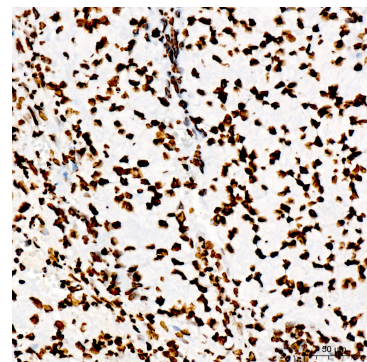
Confocal imaging of paraffin-embedded Human lung tissue using Phospho-JAK2-Y1007/1008 Rabbit mAb (AP1467, dilution 1:1000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



Immunohistochemistry analysis of Phospho-JAK2-Y1007/1008 in paraffin-embedded Mouse colon tissue using Phospho-JAK2-Y1007/1008 Rabbit mAb (AP1467) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Phospho-JAK2-Y1007/1008 in paraffin-embedded Rat lung tissue using Phospho-JAK2-Y1007/1008 Rabbit mAb (AP1467) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Phospho-JAK2-Y1007/1008 in paraffin-embedded Human cervix cancer tissue using Phospho-JAK2-Y1007/1008 Rabbit mAb (AP1467) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.