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Phospho-JAK2-Y1007 Rabbit pAb

Catalog No.: AP0373 3 Publications

Basic Information

Observed MW

120kDa

Calculated MW

131kDa

Category

Polyclonal Antibody

Applications

WB,ELISA

Cross-Reactivity

Human, Mouse

Recommended Dilutions

WB 1:200 - 1:2000

ELISA

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

to viral infections. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Immunogen Information

Gene ID Swiss Prot

3717 O60674

Immunogen

Background

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

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

phosphorylation and activation of this kinase and translocation of downstream STAT

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

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

transcription (STAT) proteins. Growth factors like TGF-beta 1 also induce

kinase. This kinase then recruits and phosphorylates signal transducer and activator of

Synonyms

JTK10; Phospho-JAK2-Y1007

Contact

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Product Information

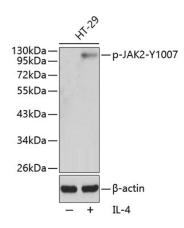
SourceIsotypePurificationRabbitIgGAffinity purification

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 HT29 cells using Phospho-JAK2-Y1007 Rabbit pAb (AP0373).

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

Lysates/proteins: $25\mu g$ per lane. Blocking buffer: 3% BSA.