

Product Datasheet

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Phospho-Jak2 (Tyr119) Rabbit Polyclonal Antibody

Catalog #: EAB11564

| Host/Isotype | Clonality | Applications | MW (kDa) | Reactivity |
|--------------|------------|------------------|----------|-------------------|
| Rabbit IgG | Polyclonal | IHC-P, IF, ELISA | 131 | Human, Mouse, Rat |

Applications Dilutions

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

IHC-P(Immunohistochemistry-Paraffin)1:50-300IF(Immunofluorescence)1:50-300ELISA(Enzyme-linked Immunosorbent Assay)1:5000-20000

Product Information

Conjugate Unconjugate

Specificity

Phospho-Jak2 (Tyr119) Rabbit Polyclonal Antibody detects endogenous levels of Jak2 protein

only when phosphorylated at Tyr119.

Purification Affinity purification

Concentration1mg/mlFormatLiquid

Formulation In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol

Shipping Gel Pack

Storage Storag

Aliquots may be stored at +4°C for 1-2 weeks

 UniProt ID
 O60674

 Entrez-Gene Id
 3717

Product Description

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.