

For Research Use Only

Phospho-JAK3 (Tyr980/981) Polyclonal antibody

Catalog Number: 29101-1-AP

2 Publications



Basic Information

Catalog Number:

29101-1-AP

Size:

100ul, Concentration: 400 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC028068

GeneID (NCBI):

3718

UNIPROT ID:

P52333

Full Name:

Janus kinase 3 (a protein tyrosine kinase, leukocyte)

Calculated MW:

1124 aa, 125 kDa

Observed MW:

125 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB

Species Specificity:

Human

Cited Species:

human, mouse

Positive Controls:

WB: IL-4 treated HepG2 cells,

Background Information

JAK3 belongs to the Janus kinase family of receptor-associated tyrosine kinases located in cytoplasm adjacent to the plasma membrane. Janus kinase family comprise four tyrosine (Tyr) kinases (JAK1, JAK2, JAK3 and Tyk2). In the cytoplasm, JAKs play a pivotal role in signal transduction via its association with type I and type II cytokine receptors, which include receptors for interleukins (ILs), interferons (IFNs), and hormones such as leptin. Interaction of a cytokine with its membrane-bound receptor complex triggers activation of receptor-bound JAKs, which phosphorylate the receptor on key cytoplasmic Tyr residues. These act as docking sites for SH2 domain-mediated interactions with STAT proteins. Receptor-bound STATs are then phosphorylated on conserved Tyr residues within their C terminal domains prior to dissociation from the receptor and formation of homo- or heterodimers. These translocate to the nucleus, bind target gene promoters, and stimulate target gene transcription. (PMID: 30948191)

Notable Publications

Author	Pubmed ID	Journal	Application
Tian Wen	39340986	Int Immunopharmacol	WB
Pengping Li	38352883	Front Immunol	WB

Storage

Storage:

Store at -20°C.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

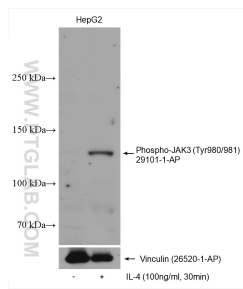
For technical support and original validation data for this product please contact:

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Selected Validation Data



Non-treated and IL-4 treated HepG2 cells were subjected to SDS PAGE followed by western blot with 29101-1-AP (Phospho-JAK3 (Tyr980/981) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Vinculin antibody as loading control.