

For Research Use Only

Phospho-JAK3 (Tyr980/981) Polyclonal antibody



Catalog Number: 29101-1-AP

1 Publications

Basic Information

Catalog Number: 29101-1-AP	GenBank Accession Number: BC028068	Purification Method: Antigen affinity purification
Size: 100ul , Concentration: 400 µg/ml by Nanodrop;	GeneID (NCBI): 3718	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	UNIPROT ID: P52333	
Isotype: IgG	Full Name: Janus kinase 3 (a protein tyrosine kinase, leukocyte)	
	Calculated MW: 1124 aa, 125 kDa	
	Observed MW: 125 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : IL-4 treated HepG2 cells,
Cited Applications: WB	
Species Specificity: Human	
Cited Species: human	

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
Pengping Li	38352883	Front Immunol	WB

Storage

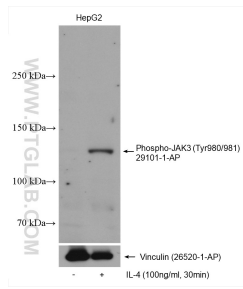
Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1%BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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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.