JAK3 Conjugated Antibody

Catalog No: #C49603

Package Size: #C49603-AF350 100ul #C49603-AF405 100ul #C49603-AF488 100ul #C49603-AF555 100ul #C49603-AF594 100ul #C49603-AF647 100ul #C49603-AF680 100ul #C49603-AF750 100ul #C49603-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	JAK3 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu
Immunogen Description	Recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	EC 2.7.10.2 antibody JAK 3 antibody JAK L antibody JAK-3 antibody Jak3 antibody JAK3 HUMAN antibody JAK3_HUMAN antibody JAKL antibody Janus kinase 3 (a protein tyrosine kinase, leukocyte) antibody Janus kinase 3 antibody Janus Kinase3 antibody L JAK antibody L-JAK antibody Leukocyte janus kinase antibody LJAK antibody Protein tyrosine kinase leukocyte antibody Tyrosine protein kinase JAK3 antibody Tyrosine-protein kinase JAK3 antibody
Accession No.	Swiss-Prot#:P52333
Uniprot	P52333
GeneID	3718;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	125 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

Non-receptor tyrosine kinase involved in various processes such as cell growth, development, or differentiation. Mediates essential signaling events in both innate and adaptive immunity and plays a crucial role in hematopoiesis during T-cells development. In the cytoplasm, plays a pivotal role in signal transduction via its association with type I receptors sharing the common subunit gamma such as IL2R, IL4R, IL7R, IL9R, IL15R and IL21R. Following ligand binding to cell surface receptors, phosphorylates specific tyrosine residues on the cytoplasmic tails of the receptor, creating docking sites for STATs proteins. Subsequently, phosphorylates the STATs proteins once they are recruited to the receptor. Phosphorylated STATs then form homodimer or heterodimers and translocate to the nucleus to activate gene transcription. For example, upon IL2R activation by IL2, JAK1 and JAK3 molecules bind to IL2R beta (IL2RB) and gamma chain (IL2RG) subunits inducing the tyrosine phosphorylation of both receptor subunits on their cytoplasmic domain. Then, STAT5A AND STAT5B are recruited, phosphorylated and activated by JAK1 and JAK3.

Note: This product is for in vitro research use only