JAK3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	JAK3, Polyclonal Antibody
Full Product Name	Phospho-JAK3 (Tyr785) Rabbit pAb
Product Gene Name	anti-JAK3 antibody
Product Synonym Names	JAK3; Tyrosine-protein kinase JAK3; Janus kinase 3; JAK-3; Leukocyte janus kinase; L-JAK
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	125,099 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (17935591..17958841, complement). Location: 19p13.1
OMIM	600173
3D Structure	ModBase 3D Structure for P52333
Immunogen	The antiserum was produced against synthesized peptide derived from human JAK3 around the phosphorylation site of Tyr785. AA range:751-800
Product Categories/Family for anti-JAK3 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-JAK3 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), ELISA (EIA)
Application Notes for anti-JAK3 antibody	WB: 1:500-1:1000 IHC: 1:50-1:100 ELISA: 1:10000
Related Product Information for anti-JAK3 antibody	Tyrosine kinase of the non-receptor type, involved in the interleukin-2 and interleukin-4 signaling pathway. Phosphorylates STAT6, IRS1, IRS2 and PI3K
Other Notes	Small volumes of anti-JAK3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for JAK3 purchase	MBS8597208 is an antibody targeting JAK3. Also known as Phospho-JAK3 (Tyr785) Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for JAK3. It may not necessarily be applicable to this product.

NCBI GI #	47157315

NCBI GeneID	3718
NCBI Accession #	NP_000206.2
UniProt Primary Accession #	P52333
UniProt Secondary Accession #	Q13259; Q13260; Q13611; Q99699; Q9Y6S2
UniProt Related Accession #	P52333
GenBank Nucleotide #	NM_000215.3
NCBI Official Full Name	tyrosine-protein kinase JAK3
NCBI Official Synonym Full Names	Janus kinase 3
NCBI Official Symbol	JAK3
NCBI Official Synonym Symbols	JAKL; LJAK; JAK-3; L-JAK; JAK3_HUMAN
UniProt Protein Name	Tyrosine-protein kinase JAK3
UniProt Synonym Protein Names	Janus kinase 3; JAK-3; Leukocyte janus kinase
Protein Family	Tyrosine-protein kinase
UniProt Gene Name	JAK3
UniProt Synonym Gene Names	JAK-3; L-JAK
UniProt Entry Name	JAK3_HUMAN
NCBI Protein Information	tyrosine-protein kinase JAK3; leukocyte Janus kinase; Janus kinase 3 (a protein tyrosine kinase, leukocyte)
NCBI Summary for JAK3	The protein encoded by this gene is a member of the Janus kinase (JAK) family of tyrosine kinases involved in cytokine receptor-mediated intracellular signal transduction. It is predominantly expressed in immune cells and transduces a signal in response to its activation via tyrosine phosphorylation by interleukin receptors. Mutations in this gene are associated with autosomal SCID (severe combined immunodeficiency disease). [provided by RefSeq, Jul 2008]
UniProt Comments for JAK3	JAK3: a non-receptor tyrosine-kinase of the Jak family expressed predominantly in immune cells. Mediates signal transduction via the common gamma-chain of cytokine receptors, including IL-2, -4, -7, -9, and -15. Interacts with members of the STAT (signal transduction and activators of transcription) family. Interacts with STAM2 and SHB. Contains two protein kinase domains. Mutations that abrogate JAK3 function cause an autosomal SCID (severe combined immunodeficiency disease). Inhibitor: R017s for organ transplants. Three differentially spliced isoforms have been described. Protein type: Protein kinase, tyrosine (non-receptor); Protein kinase, TK; Kinase, protein; EC 2.7.10.2; TK group; JakA family Chromosomal Location of Human Ortholog: 19p13.1 Cellular Component: extrinsic to internal side of plasma membrane; cytoskeleton; endomembrane system; cytosol Molecular Function: protein binding; protein-tyrosine kinase activity; non-membrane spanning protein tyrosine kinase activity; protein phosphatase binding; ATP binding; hormone receptor binding Biological Process: negative regulation of interleukin-12 production; cell migration; peptidyl-tyrosine phosphorylation; negative regulation of T-helper 1 cell differentiation; negative regulation of interleukin-10 production; negative regulation of FasL biosynthetic process; protein amino acid phosphorylation; enzyme linked receptor protein signaling pathway; regulation of apoptosis; negative regulation of dendritic cell cytokine production; tyrosine phosphorylation of STAT protein; B cell differentiation; innate immune response; erythrocyte differentiation; positive regulation of T cell proliferation; T cell homeostasis; positive regulation of transcription from RNA polymerase II promoter; inflammatory response; negative regulation of T cell activation; transmembrane receptor protein tyrosine kinase signaling pathway; STAT protein nuclear translocation Disease: Severe Combined Immunodeficiency, Autosomal Recessive, T Cell-negative, B Cell-positive, Nk Cell-negative

Research Articles on JAK3	**1.** analysis of the JAK-Fes-phospholipase D signaling pathway that is enhanced in highly proliferative breast cancer cells
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