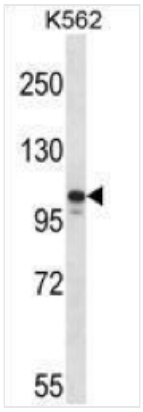
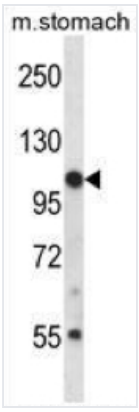
JAK3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Jak3, Polyclonal Antibody
Full Product Name	Jak3, NT (Jak3, Tyrosine-protein kinase JAK3, Janus kinase 3) (AP)
Product Gene Name	anti-Jak3 antibody
Product Synonym Names	Jak3; Tyrosine-protein kinase JAK3; Janus kinase 3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse, Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes mouse Jak3. Species Crossreactivity: human
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
3D Structure	ModBase 3D Structure for Q62137
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 133-161 in the N-terminal region of mouse Jak3, UniProt Accession #Q62137.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-Jak3 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-Jak3 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-Jak3 antibody	Applications are based on unconjugated antibody.
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.
Product References and Citations for anti-Jak3 antibody	1. Martin, P., et al. Mol. Cell. Biol. 30(20):4877-4889(2010). 2. Lange, C., et al. J. Neurochem. 113(5):1210-1220(2010). 3. Shi, M., et al. J. Immunol. 183(7):4493-4501(2009). 4. Chang, B.Y., et al. J. Immunol. 183(3):2183-2192(2009). 5. Rivas-Caicedo, A., et al. PLoS ONE 4 (9), E7066 (2009).
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	MBS6311521 is an antibody targeting Jak3. Also known as Jak3, NT (Jak3, Tyrosine-protein kinase JAK3, Janus kinase 3) (AP). Reactive in Mouse, Human. Host: Rabbit.



Western Blot (WB) of anti-Jak3 antibody
Western Blot analysis in K562 cell line lysates (35ug/lane) usingMBS6011099. This demonstrates that MBS6011099 detected the Jak3 protein (arrow).



Western Blot (WB) of anti-Jak3 antibody
Western Blot analysis in mouse stomach tissue lysates (35ug/lane) usingMBS6011099. This demonstrates that MBS6011099 detected the Jak3 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Jak3. It may not necessarily be applicable to this product.

NCBI GI #	46559418
NCBI GeneID	16453
NCBI Accession #	NP_034719.2
NCBI Related Accession #	NP_001177759.1
UniProt Primary Accession #	Q62137
UniProt Related Accession #	Q62137
GenBank Nucleotide #	NP_034719.2
NCBI Official Full Name	tyrosine-protein kinase JAK3
NCBI Official Synonym Full Names	Janus kinase 3
NCBI Official Symbol	Jak3
NCBI Official Synonym Symbols	fae; wil
UniProt Protein Name	Tyrosine-protein kinase JAK3
UniProt Synonym Protein Names	Janus kinase 3; JAK-3
Protein Family	Tyrosine-protein kinase
UniProt Gene Name	Jak3
UniProt Synonym Gene Names	JAK-3
UniProt Entry Name	JAK3_MOUSE
NCBI Protein Information	tyrosine-protein kinase JAK3

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: Kinase, protein; EC 2.7.10.2; Protein kinase, tyrosine (non-receptor); Protein kinase, TK; TK group; JakA family Cellular Component: extrinsic to internal side of plasma membrane; cytoskeleton; membrane; cytoplasm; intracellular; cytosol Molecular Function: transferase activity; protein binding; protein-tyrosine kinase activity; transferase activity, transferring phosphorus-containing groups; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; kinase activity; protein phosphatase binding; ATP binding; hormone receptor binding; protein kinase activity Biological Process: positive regulation of immune response; peptidyl-tyrosine phosphorylation; negative regulation of T-helper 1 cell differentiation; negative regulation of FasL biosynthetic process; negative regulation of interleukin-10 production; protein amino acid autophosphorylation; positive regulation of activated T cell proliferation; protein amino acid phosphorylation; enzyme linked receptor protein signaling pathway; elevation of cytosolic calcium ion concentration; erythrocyte differentiation; positive regulation of T cell proliferation; T cell homeostasis; inflammatory response; negative regulation of interleukin-12 production; cell migration; immune system process; cytokine and chemokine mediated signaling pathway; tyrosine phosphorylation of Stat5 protein; lymph node development; negative regulation of dendritic cell cytokine production; tyrosine phosphorylation of STAT protein; B cell differentiation; innate immune response; positive regulation of transcription from RNA polymerase II promoter; positive regulation of calcium ion transport; negative regulation of T cell activation; phosphorylation; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on Jak3	**1.** Here we show that CRISPR/Cas9-mediated inactivation of Suz12 cooperates with mutant JAK3 to drive T-cell transformation and T-cell acute lymphoblastic leukemia development
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-antibody/jak3/6311521