

Rabbit anti-Human JAK3 Polyclonal Antibody | anti-JAK3 antibody

JAK3 (Ab-785) Antibody

CATALOG # AAA305154	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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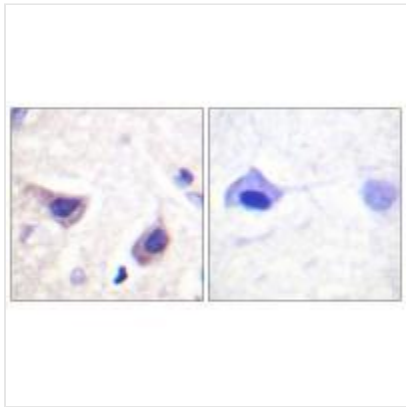
PRODUCT SYNONYMS

JAK3; Polyclonal Antibody; JAK3 (Ab-785) Antibody; EC 2.7.10.2; JAK-3; Janus kinase 3; L-JAK; anti-JAK3 antibody

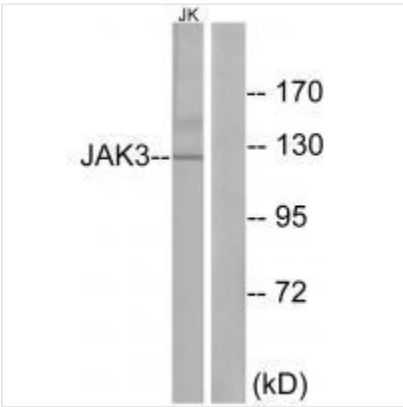
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Specificity	The antibody detects endogenous levels of total JAK3 protein.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	1124
Applicable Applications for anti-JAK3 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Peptide
Immunogen Description	Synthesized non-phosphopeptide derived from human JAK3 around the phosphorylation site of tyrosine 785 (S-D-Y(p)-E-L).
Target Name	JAK3
Preparation and Storage	Store at -20 degree C

IMAGES



IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded human brain tissue using JAK3 (Ab-785) antibody.



WB (Western Blot)
Western blot analysis of extracts from Jurkat cells, using JAK3 (Ab-785) antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-JAK3 antibody	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. Once activated, dimerized STAT5 translocates to the nucleus and promotes the transcription of specific target genes in a cytokine-specific fashion.Kawamura M., Proc. Natl. Acad. Sci. U.S.A. 91:6374-6378(1994).Lai K.S., J. Biol. Chem. 270:25028-25036(1995).Grimwood J., Nature 428:529-535(2004).
Product Categories/Family for anti-JAK3 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	47157315
NCBI GeneID	3718
NCBI Accession #	NP_000206.2
NCBI GenBank Nucleotide #	NM_000215.3
UniProt Accession #	P52333; Q13259; Q13260; Q13611; Q8N1E8; Q99699; Q9Y6S2
Molecular Weight	68,279 Da
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
NCBI Protein Information	tyrosine-protein kinase JAK3
UniProt Protein Name	Tyrosine-protein kinase JAK3
UniProt Gene Name	JAK3

UniProt Synonym Gene Names	JAK-3; L-JAK
UniProt Entry Name	JAK3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/jak3-antibody-immunohistochemistry-western-blot-elisa/305154>