

Rabbit JAK1 Polyclonal Antibody | anti-JAK1 antibody

Phospho-JAK1 (Tyr1034/Tyr1035) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA30938	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

JAK1; Polyclonal Antibody; Phospho-JAK1 (Tyr1034/Tyr1035) Antibody; JAK 1; JAK 1A; JAK 1B; JAK-1; JAK1_HUMAN; JAK1A; JAK1B; Janus kinase 1 (a protein tyrosine kinase); Janus kinase 1; JTK3; Tyrosine protein kinase JAK 1; Tyrosine protein kinase JAK1; Tyrosine-protein kinase JAK1; anti-JAK1 antibody

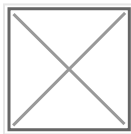
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-JAK1 (Tyr1034/Tyr1035) antibody detects endogenous levels of JAK1 only when phosphorylated at Tyr1034/Tyr1035
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1154
Applicable Applications for anti-JAK1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:500 IF/ICC: 1:100-1:500
Immunogen	A synthesized peptide derived from human JAK1 around the phosphorylation site of Tyr1034/Tyr1035
Subcellular Location	Endomembrane System. Wholly intracellular, possibly membrane associated.
Tissue Specificity	Expressed at higher levels in primary colon tumors than in normal colon tissue. The expression level in metastatic colon tumors is comparable to the expression level in normal colon tissue.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (91%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (91%)
Conjugation	Unconjugated
Epitope	Phospho Tyr1034, Phospho Tyr1035
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA30938 at 1/100 staining human muscle tumor tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohistochemistry)
AAA30938 at 1/100 staining human seminoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



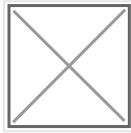
IHC (Immunohistochemistry)
AAA30938 at 1/100 staining human appendiceal tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohistochemistry)
AAA30938 at 1/100 staining rat intestinal tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohistochemistry)
AAA30938 at 1/100 staining rat appendiceal tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohistochemistry)
AAA30938 at 1/100 staining rat uterine tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-JAK1 antibody	Description: Janus kinase 1 (JAK1), is a member of a new class of protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. Function: Tyrosine kinase of the non-receptor type, involved in the IFN-alpha/beta/gamma signal pathway (PubMed:7615558). Kinase partner for the interleukin (IL)-2 receptor (PubMed:11909529). Subunit Structure: Interacts with IL31RA (PubMed:15194700). Interacts with IFNAR2 (PubMed:7759950). Interacts with IFNGR1 (PubMed:7615558). Interacts with JAKMIP1 (PubMed:15277531). Interacts with SHB (PubMed:12200137). Interacts with FER (By similarity). Post-translational Modifications: Autophosphorylated (PubMed:7615558). Phosphorylated on tyrosine residues in response to interferon gamma signaling (PubMed:7615558). Dephosphorylation of Tyr-1034 and Tyr-1035 by PTPN2 negatively regulates cytokine-mediated signaling (PubMed:11909529). Ubiquitinated by RNF125; leading to its degradation by the proteasome. Similarity: Possesses two phosphotransferase domains. The second one probably contains the catalytic domain, while the presence of slight differences suggest a different role for domain 1. The FERM domain mediates interaction with JAKMIP1. Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily.
References	Bai Y, Wang J, Han J, Xie XL, Ji CG, Yin J, Chen L, Wang CK, Jiang XY, Qi W, Jiang HQ; Journal: Mol Carcinog. BCL2L10 inhibits growth and metastasis of hepatocellular carcinoma both in vitro and in vivo. Tu T, Yu M, Zhang Y, Shi X, Xu J, Hu J, Gan J, He W, Dong L, Han J, Huang Z, Pan Y, Zhang J; Journal: Biochem Pharmacol. A novel fluorinated triazole derivative suppresses macrophage activation and alleviates experimental colitis via a Twist1-dependent pathway. Chen L, Zhou D, Liu Z, Huang X, Liu Q, Kang Y, Chen Z, Guo Y, Zhu H, Sun C; Journal: Oncol Rep. Combination of gemcitabine and erlotinib inhibits recurrent pancreatic cancer growth in mice via the JAK-STAT pathway.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1004007314
NCBI GeneID	3716

NCBI Accession #	NP_001307852.1
NCBI GenBank Nucleotide #	NM_001320923.1
UniProt Accession #	P23458 ; Q59GQ2 ; Q9UD26
Molecular Weight	Observed: 130 kDa Predicted: 134 kDa
NCBI Official Full Name	tyrosine-protein kinase JAK1 isoform 1
NCBI Official Synonym Full Names	Janus kinase 1
NCBI Official Symbol	JAK1
NCBI Official Synonym Symbols	JTK3; JAK1A; JAK1B
NCBI Protein Information	tyrosine-protein kinase JAK1
UniProt Protein Name	Tyrosine-protein kinase JAK1
UniProt Gene Name	JAK1
UniProt Synonym Gene Names	JAK1A; JAK1B; JAK-1

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://stage.aaabiotech.com/polyclonal/jak1-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/30938>