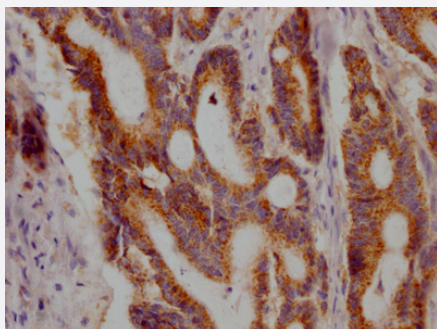


RecomAb™

JAK1 recombinant monoclonal antibody, clone 7A5

Catalog # RAB04163 Size 100 uL

Applications



Immunohistochemistry

Immunohistochemistry image of JAK1 recombinant monoclonal antibody, clone 7A5 diluted at 1:100 and staining in paraffin-embedded human colon cancer performed on a Leica Bond™ system.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human JAK1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to full length human JAK1.
Reactivity	Human
Form	Liquid
Purification	Affinity-chromatography
Isotype	IgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry

Immunohistochemistry image of JAK1 recombinant monoclonal antibody, clone 7A5 diluted at 1:100 and staining in paraffin-embedded human colon cancer performed on a Leica BondTM system.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — JAK1

Entrez GeneID [3716](#)

Protein Accession# [P23458](#)

Gene Name JAK1

Gene Alias JAK1A, JAK1B, JTK3

Gene Description Janus kinase 1 (a protein tyrosine kinase)

Omim ID [147795](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. The second phosphotransferase domain bears all the hallmarks of a protein kinase, although its structure differs significantly from that of the PTK and threonine/serine kinase family members. JAK1 is a large, widely expressed membrane-associated phosphoprotein. JAK1 is involved in the interferon-alpha/beta and -gamma signal transduction pathways. The reciprocal interdependence between JAK1 and TYK2 activities in the interferon-alpha pathway, and between JAK1 and JAK2 in the interferon-gamma pathway, may reflect a requirement for these kinases in the correct assembly of interferon receptor complexes. These kinases couple cytokine ligand binding to tyrosine phosphorylation of various known signaling proteins and of a unique family of transcription factors termed the signal transducers and activators of transcription, or STATs. [provided by RefSeq]

Other Designations OTTHUMP00000010896|janus kinase 1

Pathway

- [Jak-STAT signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)

Disease

- [Asthma](#)
- [Bronchiolitis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Infant](#)
- [Leukemia](#)
- [Leukemia-Lymphoma](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lymphoproliferative Disorders](#)
- [Multiple Sclerosis](#)
- [Myelodysplastic Syndromes](#)
- [Myelofibrosis](#)

- [Neoplasms](#)
- [Neutropenia](#)
- [Polycythemia Vera](#)
- [Precursor T-Cell Lymphoblastic Leukemia-Lymphoma](#)
- [Respiratory Syncytial Virus Infections](#)
- [Thrombocytopenia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Viremia](#)