

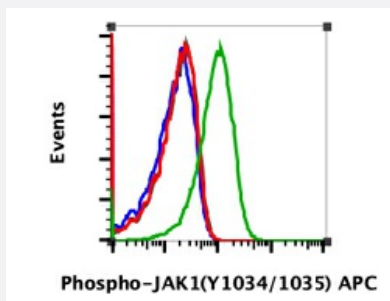
RecomAb™

JAK1 recombinant monoclonal antibody, clone Jak1Y10221023-F11 (APC)

Catalog # RAB03076

Size 100 Reactions

Applications



Flow Cytometry

Flow cytometric analysis of Jurkat cells untreated (red) or treated with IFN α + IL-4 + pervanadate (green) using Phospho-Jak1 (Tyr1034/1035) (F11) Rabbit mAb (APC Conjugate) Jak1Y10221023-F11, or concentration-matched Rabbit (G9) mAb IgG Isotype Control (FITC Conjugate) for cells untreated (black) or treated with IFN α + IL-4 + pervanadate (blue).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human JAK1.
Antibody Species	Rabbit
Immunogen	A synthetic phospho-peptide corresponding to residues surrounding Tyr1022/1023 of human phospho-Jak1
Reactivity	Human
Form	Liquid
Conjugation	APC
Purification	Protein A purification, Protein G purification
Isotype	IgG
Recommend Usage	Flow Cytometry The optimal working dilution should be determined by the end user.

Storage Buffer	In PBS (0.2% BSA, 0.09% Sodium azide)
Storage Instruction	Store at 4°C. Do not freeze.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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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]
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Other Designations	OTTHUMP00000010896 janus kinase 1
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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](#)