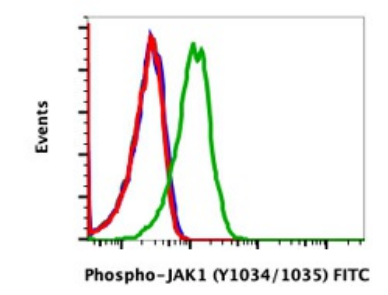
RecomAb™

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

Catalog # RAB03075 Size 100 Reactions

Applications



Flow Cytometry

Flow cytometric analysis of Jurkat cells untreated (red) or treated with IFNa + IL-4 + pervanadate (green) using Phospho-Jak1 (Tyr1034/1035) (F11) Rabbit mAb (FITC Conjugate) Jak1Y10221023-F11, or concentration-matched Rabbit (G9) mAb IgG Isotype Control (FITC Conjugate) for cells untreated (black) or treated with IFNa + 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	FITC
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 shoul d 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) characteriz ed by the presence of a second phosphotransferase-related domain immediately N-terminal to th e PTK domain. The second phosphotransferase domain bears all the hallmarks of a protein kinas e, 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 inv olved in the interferon-alpha/beta and -gamma signal transduction pathways. The reciprocal interd ependence between JAK1 and TYK2 activities in the interferon-alpha pathway, and between JAK 1 and JAK2 in the interferon-gamma pathway, may reflect a requirement for these kinases in the c orrect assembly of interferon receptor complexes. These kinases couple cytokine ligand binding t o tyrosine phosphorylation of various known signaling proteins and of a unique family of transcripti on factors termed the signal transducers and activators of transcription, or STATs. [provided by R efSeq
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