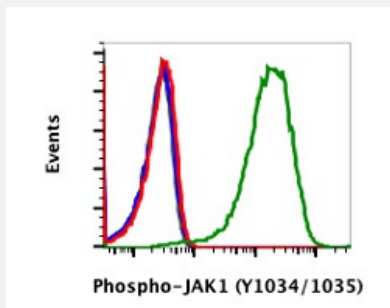


RecomAb™

JAK1 recombinant monoclonal antibody, clone Jak1Y10221023-F11

Catalog # RAB02855 Size 200 uL

Applications



Flow Cytometry

Flow cytometric analysis of Jurkat cells untreated (red) or treated with IFNα+IL-4 + pervanadate (green) using Phospho-Jak1 (Tyr1034/1035) antibody Jak1Y10341035-F11 at 0.01ug/mL, or concentration matched isotope control, for untreated (gray) or treated with IFNα+IL4+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
Purification	Protein A+G
Isotype	Rabbit IgG1k
Recommend Usage	Flow Cytometry The optimal working dilution should be determined by the end user.
Storage Buffer	1X PBS, 0.02% Sodium azide, 50% Glycerol, 0.1% BSA

Storage Instruction

Store at -20°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

- Flow Cytometry

Flow cytometric analysis of Jurkat cells untreated (red) or treated with IFN α + IL-4 + pervanadate (green) using Phospho-Jak1 (Tyr1034/1035) antibody Jak1Y10341035-F11 at 0.01 μ g/mL, or concentration matched isotope control, for untreated (gray) or treated with IFN α +IL4+Pervanadate (blue).

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](#)