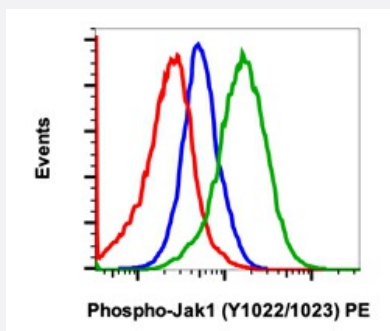


JAK1 (phospho Tyr1022/1023) monoclonal antibody, clone F11 (PE)

Catalog # MAB23347 Size 100 Reactions

Applications



Flow Cytometry

Flow cytometric analysis of Jurkat cells with JAK1 monoclonal antibody, clone F11 (PE) (Cat # MAB23347). Unstained as negative control (blue) or untreated (red) or treated with IFN α + IL-4 + pervanadate (green).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human JAK1.
Immunogen	A synthetic phospho-peptide corresponding to residues surrounding Tyr1022/1023 of human phospho-Jak1
Host	Rabbit
Reactivity	Human
Form	Liquid
Conjugation	PE
Regulatory Status	For research use only (RUO)
Recommend Usage	Flow Cytometry (5 μ L/million cells) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% NaN ₃ , 0.2% BSA)
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.

Applications

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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]

Other Designations OTTHUMP00000010896janus 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](#)