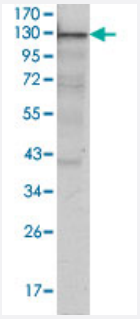
JAK3 monoclonal antibody, clone 5H2

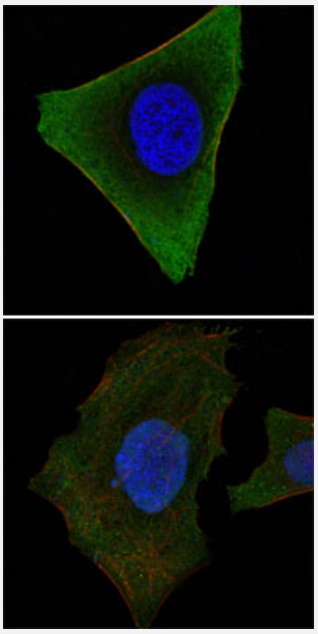
Catalog # MAB10705 Size 100 uL

Applications



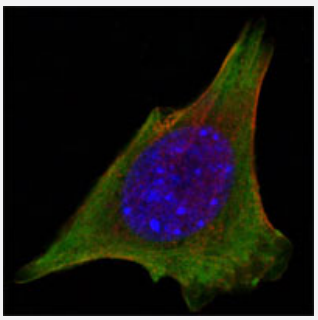
Western Blot (Cell lysate)

Western blot analysis using JAK3 monoclonal antibody, clone 5H2 (Cat # MAB10705) against Jurkat cell lysate.



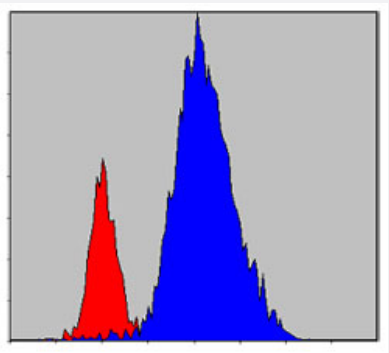
Immunofluorescence

Confocal immunofluorescence analysis of HeLa (upper) and HepG2 (bottom) cells using JAK3 monoclonal antibody, clone 5H2 (Cat # MAB10705) (green) . Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.



Immunofluorescence

Confocal immunofluorescence analysis of 3T3-L1 cells using JAK3 monoclonal antibody, clone 5H2 (Cat # MAB10705) (green) . Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.



Flow Cytometry

Flow cytometric analysis of HeLa cells using JAK3 monoclonal antibody, clone 5H2 (Cat # MAB10705) (blue) and negative control (red).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant JAK3.
Immunogen	Recombinant protein corresponding to human JAK3.
Host	Mouse
Theoretical MW (kDa)	125
Reactivity	Human, Mouse
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunofluorescence (1:200-1:1000) Flow cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis using JAK3 monoclonal antibody, clone 5H2 (Cat # MAB10705) against Jurkat cell lysate.

- Immunofluorescence

  Confocal immunofluorescence analysis of HeLa (upper) and HepG2 (bottom) cells using JAK3 monoclonal antibody, clone 5H2 (Cat # MAB10705) (green) . Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

- Immunofluorescence

  Confocal immunofluorescence analysis of 3T3-L1 cells using JAK3 monoclonal antibody, clone 5H2 (Cat # MAB10705) (green) . Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

  Flow cytometric analysis of HeLa cells using JAK3 monoclonal antibody, clone 5H2 (Cat # MAB10705) (blue) and negative control (red).

Gene Info — JAK3

Entrez GeneID	3718
Gene Name	JAK3
Gene Alias	JAK-3, JAK3_HUMAN, JAKL, L-JAK, LJAK
Gene Description	Janus kinase 3 (a protein tyrosine kinase, leukocyte)
Omim ID	600173
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the Janus kinase (JAK) family of tyrosine kinases involved in cytokine receptor-mediated intracellular signal transduction. It is predominantly expressed in immune cells and transduces a signal in response to its activation via tyrosine phosphorylation by interleukin receptors. Mutations in this gene are associated with autosomal SCID (severe combined immunodeficiency disease). [provided by RefSeq
Other Designations	Janus kinase 3|leukocyte Janus kinase|tyrosine-protein kinase JAK3

Publication Reference

- Novel compound heterozygous mutations in a Japanese girl with Janus kinase 3 deficiency.

  Sato T, Okano T, Tanaka-Kubota M, Kimura S, Miyamoto S, Ono S, Yamashita M, Mitsuiki N, Takagi M, Imai K, Kajiwara M, Ebato T, Ogata S, Oda H, Ohara O, Kanegane H, Morio T.

  Pediatrics International 2016 Sep; 58(10):1076.

  Application: WB, Human, Lymphoblastoid cell line

Pathway

- Chemokine signaling pathway
- Jak-STAT signaling pathway
- Primary immunodeficiency

Disease

- Birth Weight
- Cardiovascular Diseases
- Diabetes Mellitus
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Hematologic Diseases
- Hodgkin Disease
- Immunologic Deficiency Syndromes
- Kidney Failure
- Leukemia
- Leukemia-Lymphoma
- Lung Neoplasms

- Lymphoma
- Lymphopenia
- Lymphoproliferative Disorders
- Meningeal Neoplasms
- Meningioma
- Multiple Myeloma
- Myelodysplastic Syndromes
- Neovascularization
- Occupational Diseases
- Papillomavirus Infections
- Pulmonary Disease
- Severe combined immunodeficiency
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome