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JAK3 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a full length recombinant JAK3.
Catalog # AT2577a

Specification

JAK3 Antibody (monoclonal) (M05) - Product Information

Application	**E**
Primary Accession	P52333
Other Accession	BC028068
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**125099**

JAK3 Antibody (monoclonal) (M05) - Additional Information

Gene ID 3718

Other Names
Tyrosine-protein kinase JAK3, Janus kinase 3, JAK-3, Leukocyte janus kinase, L-JAK, JAK3

Target/Specificity
JAK3 (AAH28068, 1 a.a. ~ 619 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
JAK3 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

JAK3 Antibody (monoclonal) (M05) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety

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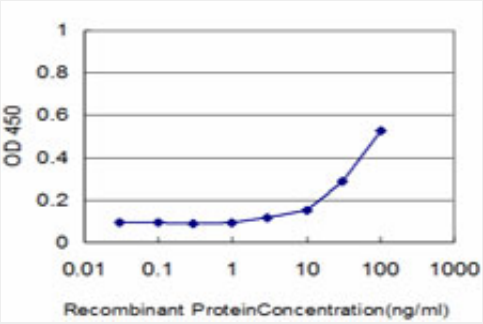
- Cell Culture

JAK3 Antibody (monoclonal) (M05) - Images



Detection limit for recombinant GST tagged JAK3 is approximately 3ng/ml as a capture antibody.

JAK3 Antibody (monoclonal) (M05) - Background

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).

JAK3 Antibody (monoclonal) (M05) - References

Absence of gain-of-function JAK1 and JAK3 mutations in adult T cell leukemia/lymphoma. Kameda T, et al. Int J Hematol, 2010 Sep. PMID 20697856.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Janus kinase 3 missense mutation in a child with Jacobsen syndrome. Lotz DR, et al. Ann Allergy Asthma Immunol, 2010 Jun. PMID 20568388.Structural and thermodynamic characterization of the TYK2 and JAK3 kinase domains in complex with CP-690550 and CMP-6. Chrencik JE, et al. J Mol Biol, 2010 Jul 16. PMID 20478313.Polymorphisms in innate immunity genes and risk of childhood leukemia. Han S, et al. Hum Immunol, 2010 Jul. PMID 20438785.