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JAK3 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a full length recombinant JAK3.
Catalog # AT2576a

Product Information

Application	E
Primary Accession	P52333
Other Accession	BC028068
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2A5
Calculated MW	125099

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.
Dilution	E~~N/A
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) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

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).

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.