

ITGAM monoclonal antibody, clone ICRF44

Catalog # MAB5619

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against native ITGAM.
Immunogen	Native purified ITGAM from rheumatoid synovial cells and human monocytes.
Host	Mouse
Reactivity	Human
Specificity	human CD11b/Mac-1a.
Form	Liquid
Isotype	IgG1
Recommend Usage	Flow Cytometry (1 ug/10 ⁶ cells) The optimal working dilution should be determined by the end user.
Storage Buffer	In 100 mM BBS, pH 8.2
Storage Instruction	Store at 4°C.

Applications

- Immunohistochemistry (Frozen sections)
- Flow Cytometry

Gene Info — ITGAM

Entrez GeneID	3684
Gene Name	ITGAM

Gene Alias	CD11B, CR3A, MAC-1, MAC1A, MGC117044, MO1A, SLEB6
Gene Description	integrin, alpha M (complement component 3 receptor 3 subunit)
Omim ID	120980
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the integrin alpha M chain. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This I-domain containing alpha integrin combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as macrophage receptor 1 ('Mac-1'), or inactivated-C3b (iC3b) receptor 3 ('CR3'). The alpha M beta 2 integrin is important in the adherence of neutrophils and monocytes to stimulated endothelium, and also in the phagocytosis of complement coated particles. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	antigen CD11b (p170) complement component receptor 3, alpha integrin alpha M macrophage antigen alpha polypeptide neutrophil adherence receptor alpha-M subunit

Publication Reference

- [Overlapping, but not identical, sites are involved in the recognition of C3bi, neutrophil inhibitory factor, and adhesive ligands by the alphaMbeta2 integrin.](#)

Zhang L, Plow EF.

The Journal of Biological Chemistry 1996 Jul; 271(30):18211.

- [Integrins as promiscuous signal transduction devices.](#)

Petty HR, Todd RF 3rd.

Immunology Today 1996 May; 17(5):209.

Application: Flow Cyt, WB, Human, Cancer, Mammalian cells

- [Two conformations of the integrin A-domain \(I-domain\): a pathway for activation?](#)

Lee JO, Bankston LA, Arnaout MA, Liddington RC.

Structure (London, England : 1993) 1995 Dec; 3(12):1333.

Application: Flow Cyt, Human, Leukocytes

Pathway

- [Cell adhesion molecules \(CAMs\)](#)
- [Hematopoietic cell lineage](#)

- [Leukocyte transendothelial migration](#)
- [Regulation of actin cytoskeleton](#)

Disease

- [Autoimmune Diseases](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Helicobacter Infections](#)
- [Lupus Erythematosus](#)
- [Lupus Nephritis](#)
- [Macular Degeneration](#)
- [Nephritis](#)
- [Stomach Ulcer](#)