

ITGAM monoclonal antibody, clone ICRF44 (APC)

Catalog # MAB6033

Size 100 Reactions

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	Specificity human CD11b/Mac-1alpha
Form	Liquid
Conjugation	APC
Isotype	IgG1
Recommend Usage	Flow Cytometry (10 ul/10 ⁶ cells) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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, Human, Cancer, Mammalian cells

- [The Mac-1 and p150,95 beta 2 integrins bind denatured proteins to mediate leukocyte cell-substrate adhesion.](#)

G E Davis.

Experimental Cell Research 1992 Jun; 200(2):242.

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](#)