

ITGAM monoclonal antibody, clone ITGAM/271

Catalog # MAB14683 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human ITGAM.
Immunogen	Recombinant protein corresponding to human ITGAM.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (0.5-1 ug/million cells) Immunofluorescence (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS (0.05% BSA and 0.05% azide).
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunofluorescence
- 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

- [Dendritic cell and macrophage staining by monoclonal antibodies in tissue sections and epidermal sheets.](#)

Flotte TJ, Springer TA, Thorbecke GJ.

The American Journal of Pathology 1983 Apr; 111(1):112.

Application: IHC-Fr, Mouse, Epidermal sheets, Small intestine, Thymus

- [Biosynthesis and assembly of the alpha and beta subunits of Mac-1, a macrophage glycoprotein associated with complement receptor function.](#)

Ho MK, Springer TA.

The Journal of Biological Chemistry 1983 Mar; 258(5):2766.

Application: IP, Mouse, Mouse macrophages, P388D1 cells

- [LFA-1 and Lyt-2,3, molecules associated with T lymphocyte-mediated killing; and Mac-1, an LFA-1 homologue associated with complement receptor function.](#)

Springer TA, Davignon D, Ho MK, Kürzinger K, Martz E, Sanchez-Madrid F.

Immunological Reviews 1982 Dec; 68:171.

Application: Func, IP, Flow Cyt, Human, Sheep, Erythrocytes, Granulocytes, Macrophages, Natural killer, Spleen cells

- [Cross-reaction of a rat-anti-mouse phagocyte-specific monoclonal antibody \(anti-Mac-1\) with human monocytes and natural killer cells.](#)

Ault KA, Springer TA.

Journal of Immunology 1981 Jan; 126(1):359.

Application: Flow Cyt, Func, Human, Monocytes, Natural killer cells

- [Monoclonal xenogeneic antibodies to murine cell surface antigens: identification of novel leukocyte differentiation antigens.](#)

Springer T, Galfrè G, Secher DS, Milstein C.

European Journal of Immunology 1978 Aug; 8(8):539.

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](#)