# ITGAM monoclonal antibody, clone MEM-170

Catalog # MAB0984 Size 100 ug

## Specification

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| **Product Description** | Mouse monoclonal antibody raised against native ITGAM. |
| **Immunogen** | Native purified ITGAM from human granulocytes. |
| **Host** | Mouse |
| **Theoretical MW (kDa)** | 165 |
| **Reactivity** | Human |
| **Specificity** | This antibody recognizes CD11b antigen (Mac-1), a 165 KDa transmembrane protein type 1 mainly expressed on monocytes, granulocytes and NK-cells. This antibody blocks (not completely) Mac-1-m ediated neutrophil binding to fibrinogen. |
| **Form** | Liquid |
| **Isotype** | IgG1 |
| **Recommend Usage** | The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH 7.4 |
| **Storage Instruction** | Store at 4°C. Do not freeze.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

- Flow Cytometry

## Gene Info — ITGAM

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| **Entrez GeneID** | 3684 |

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| **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 |

## 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