

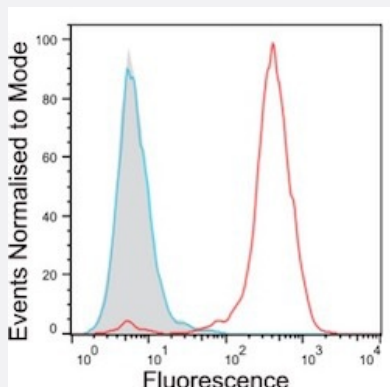
RecomAb™

# ITGAM recombinant monoclonal antibody, clone 5C6 (recombinant version)

Catalog # RAB03157      Size 100 ug

## Applications

### Flow Cytometry



Flow cytometric analysis of murine neutrophils with ITGAM recombinant monoclonal antibody, clone 5C6 (Cat # RAB03157).

Ex vivo murine (C57BL6/J) neutrophils from zymosan-elicited peritoneal exudate were stained with RAB03157 and analysed by flow-cytometry. Forward- and side-scatter was used to gate on neutrophil population (data not shown) and fluorescence intensity analysed. Figure shows staining first with RAB03157 or isotype control (.1) followed by staining with fluorescently conjugated secondary antibody (goat anti-rat). As a further control- cells were also only stained with secondary antibody. Comparison of the staining pattern obtained using RAB03157 compared to isotype- and secondary-only-control shows that the analysed cells are predominantly Cd11b-positive- agreeing with findings obtained using hybridoma-derived antibody.

## Specification

Product Description	Rat recombinant monoclonal antibody raised against human ITGAM.
Antibody Species	Rat
Immunogen	Original antibody is raised against thioglycollate-elicited muine peritoneal macrophages (TPM) and the Y3 rat myeloma line.
Reactivity	Human, Mouse
Form	Liquid
Isotype	IgG2b kappa

**Recommend Usage**

Flow Cytometry  
Immunofluorescence  
Immunohistochemistry (Frozen sections)  
The optimal working dilution should be determined by the end user.

**Storage Buffer**

In PBS with 0.02% Proclin 300

**Storage Instruction**

Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

## Applications

- Immunohistochemistry (Frozen sections)
- Immunofluorescence
- Flow Cytometry

Flow cytometric analysis of murine neutrophils with ITGAM recombinant monoclonal antibody, clone 5C6 (Cat # RAB03157). Ex vivo murine (C57BL6/J) neutrophils from zymosan-elicited peritoneal exudate were stained with RAB03157 and analysed by flow-cytometry. Forward- and side-scatter was used to gate on neutrophil population (data not shown) and fluorescence intensity analysed. Figure shows staining first with RAB03157 or isotype control (.1) followed by staining with fluorescently conjugated secondary antibody (goat anti-rat). As a further control- cells were also only stained with secondary antibody. Comparison of the staining pattern obtained using RAB03157 compared to isotype- and secondary-only-control shows that the analysed cells are predominantly Cd11b-positive- agreeing with findings obtained using hybridoma-derived antibody.

## 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

**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](#)