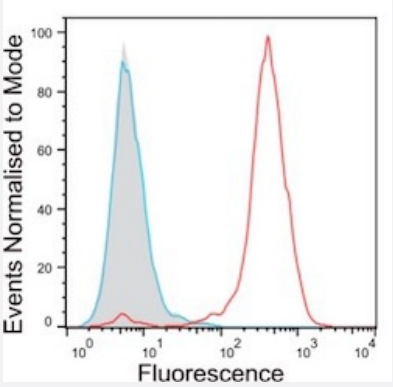
RecomAb™

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-elicted muine peritoneal macrophages (TPM) and th e Y3 rat myeloma line.
Reactivity	Human, Mouse
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system

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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

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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

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