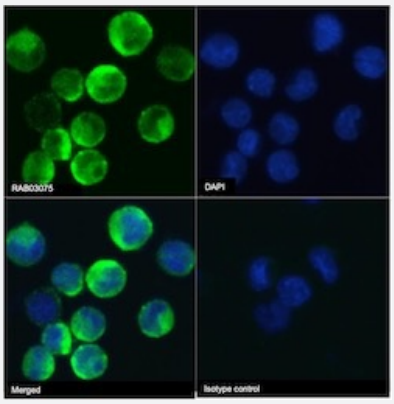
RecomAb™

CSF2RB recombinant monoclonal antibody, clone BION-1

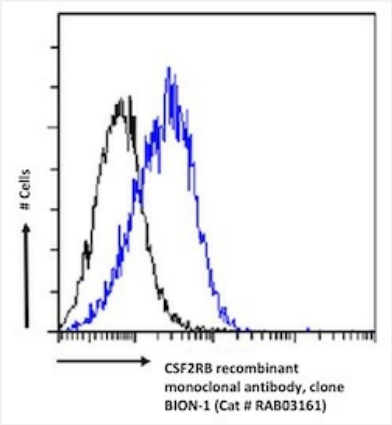
Catalog # RAB03161 Size 200 ug

Applications



Immunofluorescence

Immunofluorescent staining of U937 cells with CSF2RB recombinant monoclonal antibody, clone BION-1 (Cat # RAB03161).
Immunofluorescence analysis of paraformaldehyde fixed U937 cells immobilized on Shi-fix™ cover-slips and stained with the chimeric r version of RAB03161 at 10 ug/ml followed by Alexa Fluor® 488 secondary antibody (2 ug/ml)- showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right- top-bottom RAB03161- DAPI- merged channels and an isotype control. The isotype control was stained with anti-Fluorescein antibody (3.0) followed by Alexa Fluor® 488 secondary antibody.



Flow Cytometry

Flow cytometric analysis of U937 cells with CSF2RB recombinant monoclonal antibody, clone BION-1 (Cat # RAB03161).
U937 cells were stained with anti-Fluorescein IgG antibody (4-4-20; isotype control- black line) or the r version of RAB03161 (blue line) at a dilution of 1:100 for 1h at RT. After washing- bound antibody was detected using a goat anti-r AlexaFluor® 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CSF2RB.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against COS cells transfected DQP (Domain 4 of the common beta-chain) expression constructs.

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Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Isotype	IgG
Recommend Usage	Blocking Crystallography Flow Cytometry Functional Study Immunofluorescence Immunohistochemistry Immunoprecipitation Western Blot 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

- Functional Study
- Immunohistochemistry
- Immunofluorescence

  Immunofluorescent staining of U937 cells with CSF2RB recombinant monoclonal antibody, clone BION-1 (Cat # RAB03161). Immunofluorescence analysis of paraformaldehyde fixed U937 cells immobilized on Shi-fix™ cover-slips and stained with the chimeric r version of RAB03161 at 10 ug/ml followed by Alexa Fluor® 488 secondary antibody (2 ug/ml)- showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right- top-bottom RAB03161- DAPI- merged channels and an isotype control. The isotype control was stained with anti-Fluorescein antibody (3.0) followed by Alexa Fluor® 488 secondary antibody.

- Flow Cytometry

  Flow cytometric analysis of U937 cells with CSF2RB recombinant monoclonal antibody, clone BION-1 (Cat # RAB03161). U937 cells were stained with anti-Fluorescein IgG antibody (4-4-20; isotype control- black line) or the r version of RAB03161 (blue line) at a dilution of 1:100 for 1h at RT. After washing- bound antibody was detected using a goat anti-r AlexaFluor® 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

- Immunoprecipitation
- Western Blot

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- Blocking
- Crystallography

Gene Info — CSF2RB

Entrez GeneID	1439
Gene Name	CSF2RB
Gene Alias	CD131, CDw131, IL3RB, IL5RB
Gene Description	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)
Omim ID	138981 265120
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is the common beta chain of the high affinity receptor for IL-3, IL-5 and CSF. Defects in this gene have been reported to be associated with protein alveolar proteinosis (PAP). [provided by RefSeq
Other Designations	GM-CSF/IL-3/IL-5 receptor common beta-chain|colony stimulating factor 2 receptor, beta|colony-stimulating factor-2 receptor, beta, low-affinity|cytokine receptor common subunit beta|interleukin 3 receptor/granulocyte-macrophage colony stimulating factor 3

Pathway

- Apoptosis
- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway

Disease

- Asthma
- Bipolar Disorder
- Bronchial Hyperreactivity

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- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Hypersensitivity
- Kidney Failure
- Rhinitis
- Schizophrenia

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