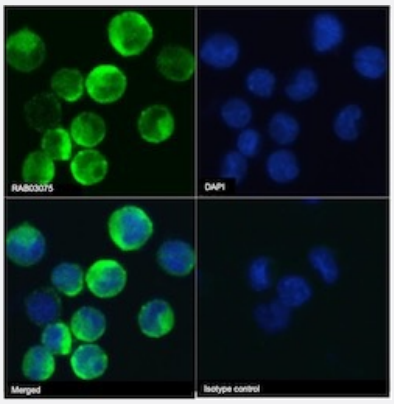
RecomAb™

# CSF2RB recombinant monoclonal antibody, clone BION-1

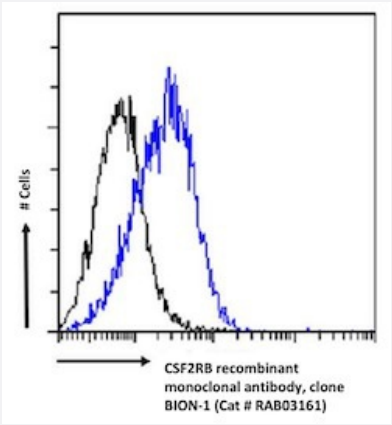
Catalog # RAB03161 Size 200 ug

## 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<br>Crystallography<br>Flow Cytometry<br>Functional Study<br>Immunofluorescence<br>Immunohistochemistry<br>Immunoprecipitation<br>Western Blot<br>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.<br>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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