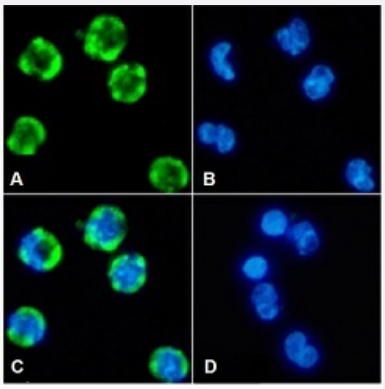
RecomAb™

CR1 recombinant monoclonal antibody, clone E11

Catalog # RAB03392 Size 200 ug

Applications



Immunofluorescence

Immunofluorescent staining of human peripheral blood leukocytes with CR1 recombinant monoclonal antibody, clone E11 (Cat # RAB03392). Immunofluorescence analysis of paraformaldehyde human peripheral blood leukocytes immobilized fixed on Shi-fix™ coverslips stained with the chimeric r version of RAB03392 at 10 ug/mL followed by Alexa Fluor® 488 secondary antibody (2 ug/mL), showing membrane staining. The nuclear stain is DAPI (blue). The isotype control was stained with unknown specificity antibody followed by staining with Alexa Fluor® 488 secondary antibody.
(A) RAB03392
(B) DAPI
(C) Merged channels
(D) Isotype control

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CR1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against cells from acute monocytic leukemia patients.
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Isotype	IgG kappa

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Recommend Usage	ELISA Immunofluorescence 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

- Immunofluorescence

  Immunofluorescent staining of human peripheral blood leukocytes with CR1 recombinant monoclonal antibody, clone E11 (Cat # RAB03392).
  Immunofluorescence analysis of paraformaldehyde human peripheral blood leukocytes immobilized fixed on Shi-fix™ coverslips stained with the chimeric r version of RAB03392 at 10 ug/mL followed by Alexa Fluor® 488 secondary antibody (2 ug/mL), showing membrane staining. The nuclear stain is DAPI (blue). The isotype control was stained with unknown specificity antibody followed by staining with Alexa Fluor® 488 secondary antibody.
  (A) RAB03392
  (B) DAPI
  (C) Merged channels
  (D) Isotype control

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

Gene Info — CR1

Entrez GeneID	1378
Gene Name	CR1
Gene Alias	C3BR, CD35, KN
Gene Description	complement component (3b/4b) receptor 1 (Knops blood group)
Omim ID	120620 607486 611162
Gene Ontology	Hyperlink

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Gene Summary	This gene is a member of the receptors of complement activation (RCA) family and is located in the 'cluster RCA' region of chromosome 1. The gene encodes a monomeric single-pass type I membrane glycoprotein found on erythrocytes, leukocytes, glomerular podocytes, and splenic follicular dendritic cells. The Knops blood group system is a system of antigens located on this protein. The protein mediates cellular binding to particles and immune complexes that have activated complement. Decreases in expression of this protein and/or mutations in its gene have been associated with gallbladder carcinomas, mesangiocapillary glomerulonephritis, systemic lupus erythematosus and sarcoidosis. Mutations in this gene have also been associated with a reduction in Plasmodium falciparum rosetting, conferring protection against severe malaria. Alternate allele-specific splice variants, encoding different isoforms, have been characterized. Additional allele specific isoforms, including a secreted form, have been described but have not been fully characterized. [provided by RefSeq
Other Designations	C3-binding protein|C3b/C4b receptor|CD35 antigen|Knops blood group antigen|complement component receptor 1|complement receptor 1

Pathway

- Complement and coagulation cascades
- Hematopoietic cell lineage

Disease

- Adhesions
- Alzheimer Disease
- Autoimmune Diseases
- Cardiovascular Diseases
- Cognition Disorders
- Diabetes Complications
- Diabetes Mellitus
- Gallbladder Neoplasms
- Gallstones
- Genetic Predisposition to Disease
- Glomerulonephritis

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- Hepatitis B
- HIV Infections
- Immune Complex Diseases
- Kidney Failure
- Liver Cirrhosis
- Lupus Erythematosus
- Lymphoma
- Macular Degeneration
- Maduromycosis
- Malaria
- Myocardial Infarction
- Neuropsychological Tests
- Pulmonary Fibrosis
- Sarcoidosis
- Tobacco Use Disorder
- Tuberculosis

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