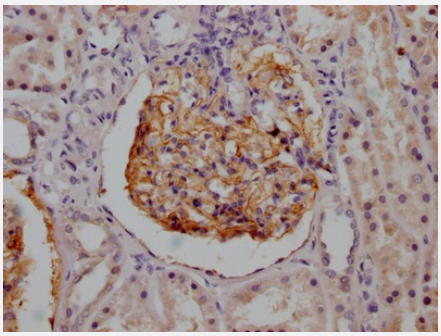
RecomAb™

CR1 recombinant monoclonal antibody, clone 9A9

Catalog # RAB07398 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human kidney tissue using CR1 recombinant monoclonal antibody, clone 9A9 (Cat # RAB07398) on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CR1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human CR1.
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.

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Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded human kidney tissue using CR1 recombinant monoclonal antibody, clone 9A9 (Cat # RAB07398) on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — CR1

Entrez GeneID	1378
Protein Accession#	P17927
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
- Hepatitis B

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- 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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