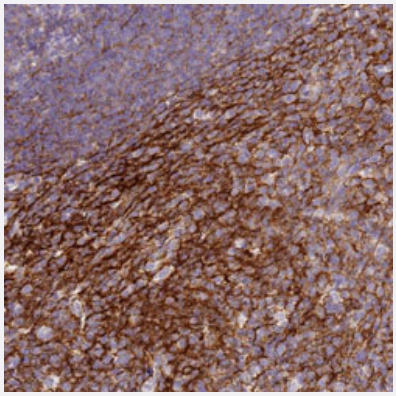
# CR1 polyclonal antibody

Catalog # PAB31253 Size 100 uL

## Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with CR1 polyclonal antibody (Cat # PAB31253) shows cytoplasmic positivity in germinal center cells.

## Specification

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| **Product Description** | Rabbit polyclonal antibody raised against partial recombinant human CR1. |
| **Immunogen** | Recombinant protein corresponding to human CR1. |
| **Sequence** | LIGSPSTTCLVSGNNVTWDKKAPICEIISCEPPPTISNGDFYSNNRTSFHNGTVVTYQCHTGPDGEQ |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Antigen affinity purification |
| **Isotype** | IgG |
| **Recommend Usage** | Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-1:500)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide). |

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| **Storage Instruction** | Store at 4°C for short term storage. For long term storage store at -20°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. |

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## Gene Info — CR1

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| **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 |
| **Gene Summary** | This gene is a member of the receptors of complement activation (RCA) family and is located in t he 'cluster RCA' region of chromosome 1. The gene encodes a monomeric single-pass type I me mbrane glycoprotein found on erythrocytes, leukocytes, glomerular podocytes, and splenic follicul ar 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 com plement. Decreases in expression of this protein and/or mutations in its gene have been associat ed with gallbladder carcinomas, mesangiocapillary glomerulonephritis, systemic lupus erythemato sus and sarcoidosis. Mutations in this gene have also been associated with a reduction in Plasm odium falciparum rosetting, conferring protection against severe malaria. Alternate allele-specific splice variants, encoding different isoforms, have been characterized. Additional allele specific is oforms, including a secreted form, have been described but have not been fully characterized. [pr ovided by RefSeq |
| **Other Designations** | C3-binding protein\|C3b/C4b receptor\|CD35 antigen\|Knops blood group antigen\|complement com ponent 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
- 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