

CUSABIO TECHNOLOGY LLC

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CR1 Recombinant Monoclonal Antibody

Product Code	CSB-RA714310A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P17927
Immunogen	A synthesized peptide derived from human CD35
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Mediates cellular binding of particles and immune complexes that have activated complement.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology; Stem cells
Gene Names	CR1
Clone No.	9A9

Image



IHC image of CSB-RA714310A0HU diluted at 1:100 and staining in paraffin-embedded human tonsil tissue performed 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? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

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IHC image of CSB-RA714310A0HU diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed 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? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

The preparation of a CR1 recombinant monoclonal antibody involves four steps: sequencing the gene that codes for the CR1 monoclonal antibody, cloning the gene into a plasmid vector, introducing the recombinant vector into a host cell line, and purifying the CR1 recombinant monoclonal antibody using affinity chromatography. To produce the CR1 monoclonal antibody, a synthesized peptide derived from human CR1 is used as the immunogen. This CR1 recombinant monoclonal antibody has been recommended for detecting human CR1 protein in ELISA and IHC applications.

The CR1 protein, also known as CD35, plays an important role in the regulation of the complement system, a part of the immune system that helps to destroy foreign particles such as bacteria and viruses. CD35 acts as a cofactor for the cleavage of complement components C3b and C4b, which are then degraded by other complement proteins, preventing the formation of large immune complexes and the activation of inflammatory pathways thus causing tissue damage. Additionally, CD35 has been shown to be involved in the clearance of apoptotic cells, immune complexes, and other debris from the bloodstream.