

CD21 Active Protein | CR2 active protein

CD21 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257931

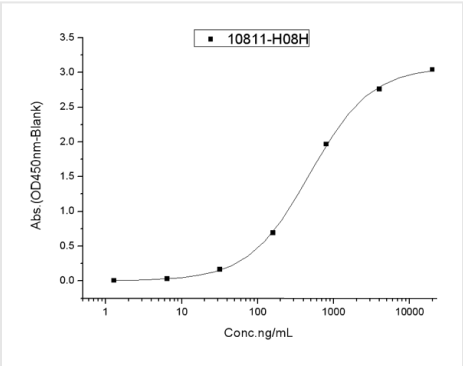
HOST
HEK293 Cells

PRODUCT SYNONYMS

CD21; CD21 Protein; Human; Recombinant (His Tag); Human CD21/CR2/C3DR Protein (His Tag); C3DR Protein; CR Protein; CVID7 Protein; SLEB9 Protein; complement component (3d/Epstein Barr virus) receptor 2; CR2 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Arg97 1
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ile 21
Tag	C-His
Protein Construction	A DNA sequence encoding the human CD21 isoform A (P20023-1) extracellular domain (Met 1-Arg 971) was expressed, with a carboxy-terminal polyhistidine tag.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Measured by its binding ability in a functional ELISA. Immobilized Human CD21 His at 2ug/ml (100uL/well) can bind Human Annexin VI/ANXA6 His, Biotinylated. The EC50 of Human Annexin VI/ANXA6 His, Biotinylated is 250-900ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized Human CD21 His at 2 ug/ml (100 ul/well) can bind Human Annexin VI/ANXA6 His, Biotinylated, the EC50 of Human Annexin VI/ANXA6 His, Biotinylated is 250-900 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for CR2 active protein	Background: The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD21, also known as Complement component (3d/Epstein Barr virus) receptor 2 and CR2, is a member of the CD system and is a protein involved in complement system. CD21 is present on all mature B-cells and some T-cells and follicular dendritic cells. CD21 on mature B-cells form a complex called the B cell receptor complex with two other membrane proteins, CD19 and CD81. CD21 has a function in the complement system through serving as the cellular receptor specific for ligands such as C3 and C4 which can be attached to foreign macromolecules in order to remove or uptake them. This results in B-cells having enhanced response to the antigen.
Product Categories/Family for CR2 active protein	Serine Proteases and Regulators; Complement Activation Pathways
References	Zola H, et al. (2007) CD molecules 2006-human cell differentiation molecules. J Immunol Methods. 318 (1-2): 1-5.Ho IC, et al. (2009) GATA3 and the T-cell lineage: essential functions before and after T-helper-2-cell differentiation. Nat Rev Immunol. 9 (2): 125-35.Matesanz-Isabel J, et al. (2011) New B-cell CD molecules. Immunology Letters.134 (2): 104-12.Joseph M, et al. (1989) Structure and Function of the Complement Receptors, CR1 (CD35) and CR2 (CD21). Advanced in immunology. 46: 183-219.Aubry JP, et al. (1992) CD21 is a ligand for CD23 and regulates IgE production. Nature 358: 505 - 7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	215273962
NCBI GeneID	1380
UniProt Accession #	P20023
NCBI Official Full Name	Complement receptor type 2
NCBI Official Synonym Full Names	complement C3d receptor 2
NCBI Official Symbol	CR2
NCBI Official Synonym Symbols	CR; C3DR; CD21; CVID7; SLEB9
NCBI Protein Information	complement receptor type 2
UniProt Protein Name	Complement receptor type 2

UniProt Gene Name	CR2
UniProt Synonym Gene Names	C3DR; Cr2; EBV receptor
UniProt Entry Name	CR2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hek293-cr2-active-protein/cd21/257931>