

CD19 recombinant protein

Recombinant Human CD19 Protein (ECD, His Tag), High activity

CATALOG # AAA27783	HOST HEK293 Stable Cells	REACTIVITY Human
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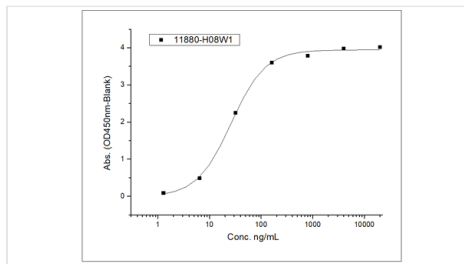
PRODUCT SYNONYMS

CD19; Recombinant Human CD19 Protein (ECD; His Tag); High activity; Human CD19 Protein (ECD; CD19 molecule; B4 Protein; Human; CVID3 Protein; CD19 recombinant protein

PRODUCT SPECIFICATIONS

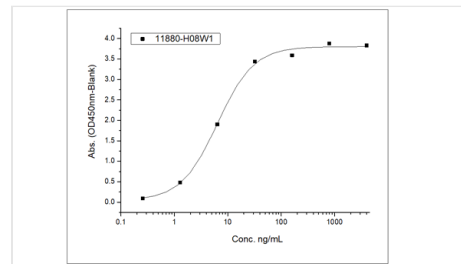
Host	HEK293 Stable Cells
Reactivity	Human
Purity/Purification	>= 90% as determined by SDS-PAGE.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Met1-Lys29 1
Tag	C-His
Predicted N Terminal	Pro 20
Endotoxin	< 1.0 EU perug of the protein as determined by the LAL method
Protein Construction	A DNA sequence encoding the Human CD19 (P15391-1)(Met1-Lys291) was expressed with a polyhistidine tag at the C-terminus.
Activity	1. Immobilized Recombinant Human CD19 Protein (ECD, His Tag) at 2ug/mL (100uL/well) can bind Monoclonal Anti- CD19 Antibody, Human IgG1, the EC50 is 4-15ng/mL. (Routinely tested)2.Loaded Biotinylated Inebilizumab on SA Biosensor, can bind Recombinant Human CD19 Protein, His Tag, High activity with an affinity constant of 9.58nM as determined in BLI assay (Sartorius Octet RED384)(Routinely tested).
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 unless customers require otherwise.

IMAGES



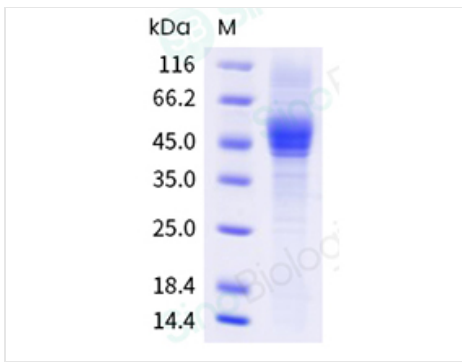
Application Data

Coltuximab captured on Protein A chip can bind Recombinant Human CD19 Protein, His Tag His Tag Human IgG1 at 2ug/mL (100uL/well) can bind Recombinant Human CD19 Protein (ECD, His Tag)(#AAA27783), the EC50 is 15-50ng/mL.(QC tested



Application Data

Loaded Biotinylated Inebilizumab on SA Biosensor, can bind Recombinant Human CD19 Protein, His Tag, High activity His Tag)(#AAA27783) at 2ug/mL (100uL/well) can bind Monoclonal Anti- CD19 Antibody, Human IgG1, the EC50is 4-15ng/mL. (Routinely tested



Application Data

ADDITIONAL INFORMATION

Related Product Information for CD19 recombinant protein	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. Cluster of differentiation 19 (CD19) is a member of CD system. CD19 is a cell surface molecule that assembles with the antigen receptor of B-cells. This results in a descent in the threshold for antigen receptor-dependent stimulation. A simplified view holds that the ability of B-cells to respond to the various antigens in a specific and sensitive manner is achieved in the presence of low-affinity antigen receptors. CD19 primarily acts as a B-cell co-receptor in conjunction with CD21 and CD81. The formation of the receptor complex is induced by antigen and CD19, induced by exogenous antigen, has been found cytoplasmic tail phosphorylated and bind to slg.
Product Categories/Family for CD19 recombinant protein	B Cell Receptor Signaling Pathway ; Cancer Drug Targets
References	Zol. H. e. al. (2007). C. molecule. 2006-huma. cel. differentiatio. molecules. . Immuno. Methods. 31. (1-2). 1-5. H. IC. e. al. (2009). GATA. an. th. T-cel. lineage. essentia. function. befor. an. afte. T-helper-2-cel. differentiation. Na. Re. Immunol. . (2). 125-35. Matesanz-Isabe. J. e. al. (2011). Ne. B-cel. C. molecules. Immunolog. Letters.13. (2). 104-12. Carte. RH. e. al. (1992). CD19. lowerin. th. threshol. fo. antige. recepto. stimulatio. o. . lymphocytes. Science. 25. (5053). 105-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	296010921
NCBI GeneID	930
NCBI Accession #	NP_001171569.1
NCBI GenBank Nucleotide #	NM_001178098.1
UniProt Accession #	P15391 ; Q96S68 ; Q9BRD6 ; A0N0P9
Molecular Weight	61,128 Da
NCBI Official Full Name	B-lymphocyte antigen CD19 isoform 1
NCBI Official Synonym Full Names	CD19 molecule
NCBI Official Symbol	CD19
NCBI Official Synonym Symbols	B4; CVID3
NCBI Protein Information	B-lymphocyte antigen CD19; differentiation antigen CD19; T-cell surface antigen Leu-12; B-lymphocyte surface antigen B4
UniProt Protein Name	B-lymphocyte antigen CD19

UniProt Gene Name	CD19
UniProt Entry Name	CD19_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/cd19-recombinant-protein-hek293/27783>