

CD200 active protein

Recombinant human CD200 protein

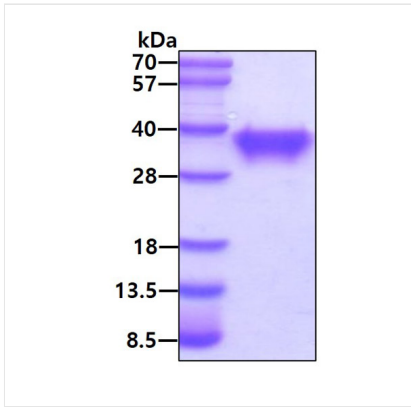
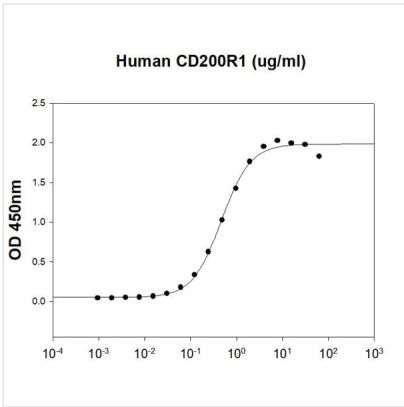
CATALOG # AAA48391	HOST Baculovirus	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

CD200; Recombinant human CD200 protein; OX-2 membrane glycoprotein isoform a; MOX1; MOX2; MRC; OX-2; CD200 active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	>95% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.5mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	31-232aa
Sequence	QVQVV TQDEREQLYT PASLKCSLQN AQEALIVTWQ KKKAVSPENM VTFSENHGVV IQPAYKDKIN ITQLGLQNST ITFWNITLED EGCYMCLFNT FGFGKISGTA CLTVYVQPIV SLHYKFSEDH LNITCSATAR PAPMVFWKVP RSGIENSTVT LSHPNGTTSV TSLHIKDPK NQVGKEVICQ VLHLGTVTDF KQTVNKG
Applicable Applications for CD200 active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Human
Tag	His-Tag
Predicted N-term	Ala
Bioactivity	Measured by its binding ability in a functional ELISA with Human CD200R1
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.



Bioactivity
CD200 Subunit is coated at 10 ug/ml (100 ul/well) can bind Human CD200R1 (CAT# ATGP3809) in a Functional ELISA assay.

SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for CD200 active protein	CD200, also known as OX-2 membrane glycoprotein isoform a, belongs to the immunoglobulin superfamily. This protein imparts immune privileges by suppressing alloimmune and autoimmune responses through its receptor, CD200R, expressed primarily on myeloid cells. D200 and CD200R associate via their respective N-terminal Ig-like domains. CD200-CD200R signaling have been shown to play an important role in the regulation of anti-tumor immunity, and overexpression of CD200 has been reported in a number of malignancies, including CLL, as well as on cancer stem cells. Studies of the related genes in mouse and rat suggest that this gene may regulate myeloid cell activity and delivers an inhibitory signal for the macrophage lineage in diverse tissues. Elevated expression of this protein has been reported to be associated with poor prognosis in a number of human malignancies. In addition, it also plays an important role in prevention of graft rejection, autoimmune diseases and spontaneous abortion. Recombinant human CD200 protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for CD200 active protein	Immunology; Proteins
References	Akkaya M., et al. (2013) PLoS One. 8:e63325. Li L., et al. (2016) Med Sci Monit. 22:1079-1084.

NCBI AND UNIPROT INFORMATION

NCBI GI #	90903247
NCBI GeneID	4345
NCBI Accession #	NP_005935
NCBI GenBank Nucleotide #	NM_005944.6
UniProt Accession #	P41217; Q6J2Q6; Q6PIQ4; Q8TB85; Q9H3J3; B3KQI1; B4DLW9; D3DN65
Molecular Weight	24.8kDa (225aa)
NCBI Official Full Name	OX-2 membrane glycoprotein isoform a
NCBI Official Synonym Full Names	CD200 molecule
NCBI Official Symbol	CD200
NCBI Official Synonym Symbols	MRC; MOX1; MOX2; OX-2
NCBI Protein Information	OX-2 membrane glycoprotein
UniProt Protein Name	OX-2 membrane glycoprotein
UniProt Gene Name	CD200

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://stage.aaabiotech.com/baculovirus-active-protein/cd200/48391>