

Recombinant human CD200 protein

Catalog Number: ATGP4013

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

31-232aa

UniProt No.

P41217

NCBI Accession No.

NP_005935

Alternative Names

OX-2 membrane glycoprotein isoform a, CD200, MOX1, MOX2, MRC, OX-2

PRODUCT SPECIFICATION

Molecular Weight

23.5 kDa (211aa)

Concentration

0.5mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured by its binding ability in a functional ELISA with Human CD200R1 (CAT# ATGP3809)

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CD200, also known as OX-2 membrane glycoprotein isoform a, belongs to the immunoglobulin superfamily. This

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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.

Amino acid Sequence

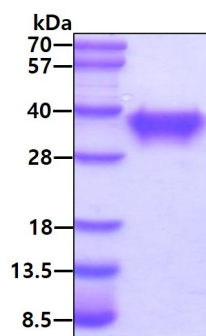
<ADP>QVQVVTQ DEREQLYTPA SLKCSLQNAQ EALIVTWQKK KAVSPENMVT FSENHGVVIQ PAYKDKINIT QLGLQNSTIT FWNITLEDEG CYMCLFNTFG FGKISGTACL TVYVQPIVSL HYKFSEDHLN ITCSATARPA PMVFWKVP RS GIENSTVTLS HPNGTTSVTS ILHIKDPKNQ VGKEVICQVL HLGTVTDFKQ TVNKG<HHHHH H>

General References

Akkaya M., et al. (2013) PLoS One. 8:e63325.
 Li L., et al. (2016) Med Sci Monit. 22:1079-1084.

DATA

SDS-PAGE



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

Biological Activity

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

