

Recombinant mouse CD200 protein

Catalog Number: ATGP3878

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

31-232aa

UniProt No.

O54901

NCBI Accession No.

NP_034948

Alternative Names

Cd200, Mox2, OX2, OX-2 membrane glycoprotein isoform 1, MRC OX-2 antigen

PRODUCT SPECIFICATION

Molecular Weight

49.5 kDa (441aa)

Concentration

1mg/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)

Tag

hIgG-His-Tag

Application

SDS-PAGE

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 1, is one of the immunoglobulin superfamily. It plays an important role in anti-tumor immunity through interaction with its receptor, and overexpression of this protein effects on malignancies as well as on cancer stem cells. In T cells, this protein functions as a co-stimulatory effect that is independent of the CD28 pathway. It also plays an important role on myeloid cell

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regulation that is suggested by restricted expression of its receptor. Studies of this protein 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. Recombinant mouse CD200, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

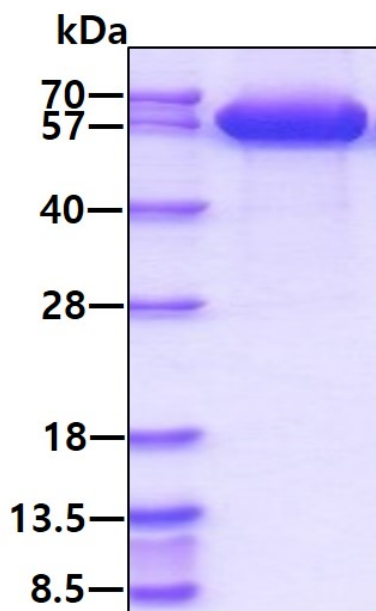
QVEVVTQDER KALHTTASLR CSLKTSQEPL IVTWQKKKAV SPENMVTYSK THGVVIQPAY KDRINVTELG LWNSSITFWN
 TTLEDEGCMY CLFNFTFGSQK VSGTACLTLV VQPIVHLHYN YFEDHLNITC SATARPAPAI SWKGTGTGIE NSTESHFHSN
 GTTSVTSILR VKDPKTQVGK EVICQVLYLG NVIDYKQSLD KG<LEPKSCDK THTCPPCPAP ELLGGPSVFL FPPKPKDTLM>
 <ISRTPEVTCV VVDVSHEDPE VKFNWYVDGV EVHNAKTKPR EEQYNSTYRV VSVLTVLHQD> <WLNGKEYKCK
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 SFFLYSKLTV DKSRWQQGNV FSCVMHEAL> <HNHYTQKSLS LSPGKHHHHH H>

General References

Poongodi R., et al. (2018) Indian J Pathol Microbiol. 61:50-57.
 Kuwabara J., et al. (2018) Biochem Biophys Res Commun. 496:542-548.

DATA

SDS-PAGE



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