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

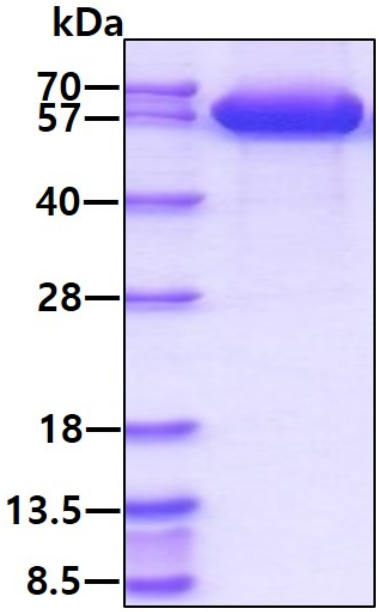
QVEVVTQDER KALHTTASLR CSLKTSQEPL IVTWQKKKAV SPENMVTYSK THGVVIQPAY KDRINVTELG LWNSSITFWN TTLEDEGCYM CLFNTFGSQK VSGTACLTLY VQPIVHLHYN YFEDHLNITC SATARPAPAI SWKGTGTGIE NSTESHFHSN GTTSVTSILR VKDPKTQVGK EVICQVLYLG NVIDYKQSLD KG<LEPKSCDK THTCPPCPAP ELLGGPSVFL FPPKPKDTLM> <ISRTPEVTCV VVDVSHEDPE VKFNWYVDGV EVHNAKTKPR EEQYNSTYRV VSVLTVLHQD> <WLNGKEYKCK VSNKALPAPI EKTISKAKGQ PREPQVYTLP PSRDELTKNQ VSLTCLVKGF> <YPSDIAVEWE SNGQPENNYK TTPPVLDSDG SFFLYSKLTV DKSRWQQGNV FSCSVMHEAL> <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.