Recombinant human CD89/FCAR protein

Catalog Number: ATGP3660

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
22-227aa

UniProt No.
P24071

NCBI Accession No.
NP_001991

Alternative Names
CD89, CTB-61M7.2, Fc alpha receptor, Fc fragment of IgA receptor, FcalphaR, FcalphaRI, FCAR, IgA Fc receptor, Immunoglobulin alpha Fc receptor isoform

PRODUCT SPECIFICATION

Molecular Weight
24.5 kDa (215aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

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

Purity
> 85% by SDS-PAGE

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

Tag
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
FCAR, also known as immunoglobulin alpha Fc receptor isoform, is a member of the multichain immune recognition receptor family which is the most abundant immunoglobulin in mucosal areas but is only the second most common antibody isotype in serum. It plays a role in both pro- and anti-inflammatory responses depending

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on the state of IgA bound. It is also an important Fc receptor for neutrophil killing of tumor cells. When FCAR expressing neutrophils come into contact with IgA-opsonized tumor cells, the neutrophils not only perform antibody-dependent cell-mediated cytotoxicity, but also release the cytokines TNF-alpha and IL-1beta which cause increased neutrophil migration to the site. Recombinant human FCAR, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

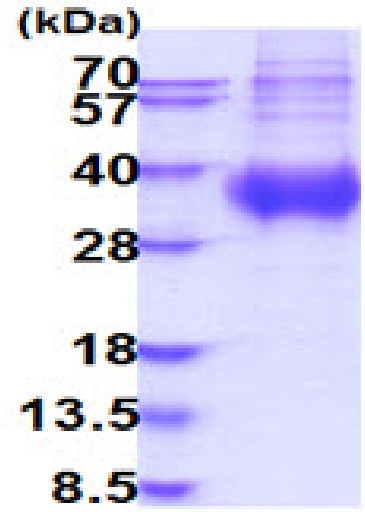
ADPQEGDFPM PFISAKSSPV IPLDGSVKIQ CQAIREAYLT QLMIIKNSTY REIGRRLKFW NETDPEFVID HMDANKAGRY QCQYRIGHYR FRYSDTLELV VTGLYGKPFL SADRGLVLMP GENISLTCSS AHIPFDRFSL AKEGELSLPQ HQSGEHPANF SLGPVDLNVS GIYRCYGWYN RSPYLWSFPS NALELVVTDS IHQDYTTQNH HHHHH

General References

Maliszewski, C. R., et al. (1990) J. Exp. Med. 172:1665-1672.
Kanamaru, Y., et al. (2007) Blood. 109:203-211.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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