

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

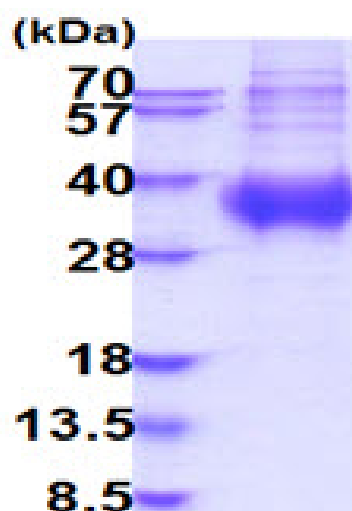
ADPQEGDFPM PFISAKSSPV IPLDGSVKIQ CQAIREAYLT QLMIIKNSTY REIGRRLKFW NETDPEFVID HMDANKAGRY
QCQYRIGHYR FRYSDTLELV VTGLYGKPFSL SADRGLVLMV GENISLTCSS AHIPFDRFSL AKEGELSLPQ HQSGEHPANF
SLGPVDLNVG GIYRCYGWYN RSPYLWSFPS NALELVVTDV IHQDYTTQNH HHHHH

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



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

15% SDS-PAGE (3ug)