Datasheet for ABIN1096636

FCAR Protein (AA 22-227) (His tag)

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Overview

Quantity:	50 µg
Target:	FCAR
Protein Characteristics:	AA 22-227
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FCAR protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Immunoglobulin α Fc Receptor/FCAR/CD89 (C-6His)
Sequence:	QEGDFPMPFI SAKSSPVIPL DGSVKIQCQA IREAYLTQLM IIKNSTYREI GRRLKFWNET DPEFVIDHMD ANKAGRYQCQ YRIGHYRFRY SDTLELVVTG LYGKPFLSAD RGLVLMPGEN ISLTCSSAHI PFDRFSLAKE GELSLPQHQS GEHPANFSLG PVDLNVSGIY RCYGWYNRSP YLWSFPSNAL ELVVTDSIHQ DYTTQNVDHH HHHH
Characteristics:	Recombinant Human Immunoglobulin α Fc Receptor/FCAR/CD89 (C-6His)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	FCAR

Target Details

Alternative Name:	Immunoglobulin alpha Fc Receptor/FCAR (FCAR Products)
Background:	Recombinant Human Immunoglobulin α Fc Receptor/FCAR produced by transfected human cells is a secreted protein with sequence (Gln22-Asn227) of Human FCAR fused with a polyhistidine tag at the C-terminus. Immunoglobulin α Fc Receptor (IgA Fc Receptor) is a member of the immunoglobulin gene superfamily. It is a transmembrane glycoprotein present on the surface of myeloid lineage cells such as neutrophils, monocytes, macrophages, and eosinophils, where it mediates immunologic responses to pathogens through the charged arginin residue within its transmembrane domain. IgA Fc Receptor binds both IgA1 and IgA2 with similar affinity. The site of interaction between FCAR and IgA was identified in the first extracellular domain of FCAR and the C2/C3 junction of IgA. It interacts with IgA-opsonized targets and triggers several immunologic defense processes, including phagocytosis, antibody-dependent cell-mediated cytotoxicity, and stimulation of the release of inflammatory mediators. FCAR is also expressed on Kupffer cells in the liver, where it was suggested to provide a second line of defense.
Molecular Weight:	24.52 kDa
UniProt:	P24071

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.