Datasheet for ABIN7519980

FCER2 Protein (His tag)

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Overview

Quantity:	100 µg
Target:	FCER2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FCER2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Fc epsilon RII/CD23 Protein
Sequence:	DTTQSLKQLE ERAARNVSQV SKNLESHHGD QMAQKSQSTQ ISQELEELRA EQQRLKSQDL ELSWNLNGLQ ADLSSFKSQE LNERNEASDL LERLREEVTK LRMELQVSSG FVCNTCPEKW INFQRKCYYF GKGTKQWVHA RYACDDMEGQ LVSIHSPEEQ DFLTKHASHT GSWIGLRNLD LKGEFIWVDG SHVDYSNWAP GEPTSRSQGE DCVMMRGSGR WNDAFCDRKL GAWVCDRLAT CTPPASEGSA ESMGPDSRPD PDGRLPTPSA PLHS
Specificity:	Asp48-Ser321
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg

Target Details

Target:	FCER2

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Target Details

Alternative Name:	Fc epsilon RII/CD23 (FCER2 Products)
Background:	Description: Fc fragment of IgE, low affinity II, receptor for (CD23) or CD23 antigen is a member of the cluster of differentiation family. The cluster of differentiation (cluster of designation) (often abbreviated as CD) is a protocol used for the identification and investigation of cell surface molecules present on white blood cells initially but found in almost any kind of cell of the body, providing targets for immunophenotyping of cells. Physiologically, CD molecules can act in numerous ways, often acting as receptors or ligands (the molecule that activates a receptor) important to the cell. A signal cascade is usually initiated, altering the behavior of the cell (see cell signaling). Some CD proteins do not play a role in cell signaling, but have other functions, such as cell adhesion. CD23/FCER2 is a B-cell specific antigen, and a low-affinity receptor for IgE. It has essential roles in B cell growth and differentiation, and the regulation of IgE production. This protein also exists as a soluble secreted form, then functioning as a potent mitogenic growth factor. Increased levels of soluble CD23/FCER2 cause the recruitment of non-sensitised B-cells in the presentation of antigen peptides to allergen-specific B-cells, therefore increasing the production of allergen specific IgE. IgE, in turn, is known to upregulate the cellular expression of CD23 and Fc epsilon RI (high-affinity IgE receptor). Name: BLAST-2, CD23, CD23A, CLEC4J, FCE2, IGEBF,FCER2, BLAST-2, Fc fragment of IgE receptor II,CD23,CD23A,CLEC4J,FCE2,IGEBF
Gene ID:	2208
UniProt:	P06734
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Handling

Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for long term.|After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

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