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Datasheet for ABIN2180728

## FCER2 Protein (AA 48-321) (His tag)

### 1 Image

#### Overview

Quantity:	100 µg
Target:	FCER2
Protein Characteristics:	AA 48-321
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FCER2 protein is labelled with His tag.

#### Product Details

Brand:	MABSol®
Sequence:	AA 48-321
Characteristics:	This protein carries a polyhistidine tag at the N-terminus. The protein has a calculated MW of 32.6 kDa. The protein migrates as 40-44 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

#### Target Details

Target:	FCER2
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## Target Details

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Alternative Name: [CD23 \(FCER2 Products\)](#)

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**Background:** Cluster of differentiation 23 (CD23) is also known as Low affinity immunoglobulin epsilon Fc receptor (FCER2), C-type lectin domain family 4 member J (CLEC4J), Fc-epsilon-RII (FcεRII), Immunoglobulin E-binding factor (IGEBF), is the "low-affinity" receptor for IgE, an antibody isotype involved in allergy and resistance to parasites, and is important in regulation of IgE levels. Unlike many of the antibody receptors, CD23 is a C-type lectin. It is found on mature B cells, activated macrophages, eosinophils, follicular dendritic cells, and platelets. There are two forms of CD23: CD23a and CD23b. CD23a is present on follicular B cells, whereas CD23b requires IL-4 to be expressed on T-cells, monocytes, Langerhans cells, eosinophils, and macrophages. CD23 is known to have role of transportation in antibody feedback regulation. Antigen that enters the blood stream is captured by antigen specific IgE antibodies. The IgE immune complexes that are formed bind to CD23 Molecules on B cells, and are transported to the B cell follicles of the spleen. The antigen is then transferred from CD23+ B cells to CD11c+ antigen presenting cells. The CD11c+ cells in turn present the antigen to CD4+ T cells, which can lead to an enhanced antibody response. In flow cytometry, CD23 is helpful in the differentiation of chronic lymphocytic leukemia (CD23-positive) from mantle cell leukemia (CD23-negative).

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Molecular Weight: 32.9 kDa

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NCBI Accession: [NP\\_001993](#)

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Pathways: [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#)

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## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Buffer: 50 mM Tris, 150 mM NaCl, pH 7.5

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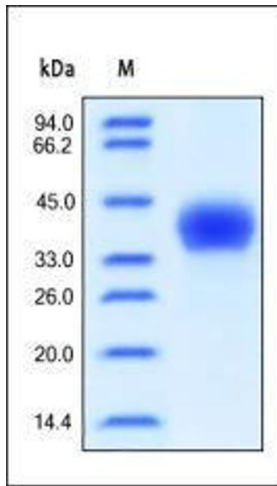
Handling Advice: Please avoid repeated freeze-thaw cycles.

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Storage: -20 °C

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Storage Comment: No activity loss was observed after storage at: 4-8°C for 1 year in lyophilized state 4-8°C for 1 month under sterile conditions after reconstitution -20°C to -70°C for 3 months under sterile conditions after reconstitution



### SDS-PAGE

**Image 1.** Human CD23, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.