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Datasheet for ABIN2180715 CD19 Protein (AA 20-291) (Fc Tag)

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Overview

Quantity:	100 µg
Target:	CD19
Protein Characteristics:	AA 20-291
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD19 protein is labelled with Fc Tag.

Product Details

Sequence:	AA 20-291
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 56.3 kDa. The protein migrates as 56-66 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 0.1 EU per µg by the LAL method.
Target Details	
Target:	CD19

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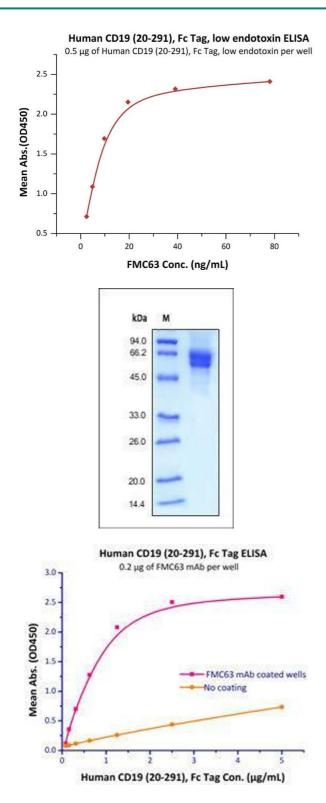
Alternative Name:	CD19 (CD19 Products)
Background:	B-lymphocyte antigen CD19 is also known as CD19 (Cluster of Differentiation 19), is a single-
	pass type I membrane protein which contains two Ig-like C2-type (immunoglobulin-like)
	domains. CD19 is expressed on follicular dendritic cells and B cells. In fact, it is present on B
	cells from earliest recognizable B-lineage cells during development to B-cell blasts but is lost or
	maturation to plasma cells. It primarily acts as a B cell co-receptor in conjunction with CD21
	and CD81. Upon activation, the cytoplasmic tail of CD19 becomes phosphorylated, which leads
	to binding by Src-family kinases and recruitment of PI-3 kinase. As on T cells, several surface
	molecules form the antigen receptor and form a complex on B lymphocytes. The (almost) B
	cell-specific CD19 phosphoglycoprotein is one of these molecules. The others are CD21 and
	CD81. These surface immunoglobulin (slg)-associated molecules facilitate signal transduction.
	On living B cells, anti-immunoglobulin antibody mimicking exogenous antigen causes CD19 to
	bind to slg and internalize with it. The reverse process has not been demonstrated, suggesting
	that formation of this receptor complex is antigen-induced. This molecular association has
	been confirmed by chemical studies. Mutations in CD19 are associated with severe
	immunodeficiency syndromes characterized by diminished antibody production. CD19 has
	been shown to interact with: CD81, CD82, Complement receptor 2, and VAV2.
Molecular Weight:	56.3 kDa
NCBI Accession:	NP_001761
Pathways:	Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling
	Pathway
Application Details	
Restrictions:	For Research Use only
Handling	
0	
-	Lyophilized
Format:	Lyophilized PBS, pH 7.4
Format: Buffer:	
Format: Buffer: Handling Advice:	PBS, pH 7.4
Format: Buffer: Handling Advice: Storage: Storage Comment:	PBS, pH 7.4 Please avoid repeated freeze-thaw cycles.

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Product cited in:

Kwon, Kim, Meyer, Di Bisceglie, Ray: "Distinct CD55 Isoform Synthesis and Inhibition of Complement-Dependent Cytolysis by Hepatitis C Virus." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 197, Issue 4, pp. 1127-36, (2017) (PubMed).

Images



ELISA

Image 1. Immobilized Human CD19 (20-291), Fc Tag, low endotoxin (ABIN2180716,ABIN2180715) at 5 μ g/mL (100 μ L/well) can bind FMC63 with a linear range of 0.6-20 ng/mL (QC tested).

SDS-PAGE

Image 2. Human CD19 (20-291), Fc 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%.

Binding Studies

Image 3. Immobilized FMC63 mAb at 2 μ g/mL (100 μ L/well) can bind Human CD19 (20-291), Fc Tag (Cat# CD9-H5259) with a linear range of 0.15-1.25 μ g/mL.

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