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CD20 Protein (AA 1-297) (His tag)





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Quantity:	100 μg
Target:	CD20 (MS4A1)
Protein Characteristics:	AA 1-297
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD20 protein is labelled with His tag.

Product Details

Characteristics:	Cynomolgus CD20 / MS4A1 Full Length Protein, His Tag
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per μg by the LAL method.

Target Details

Target:	CD20 (MS4A1)
Alternative Name:	CD20 (MS4A1 Products)
Background:	B-lymphocyte antigen CD20 is also known as B-lymphocyte surface antigen B1, Leukocyte
	surface antigen Leu-16, Membrane-spanning 4-domains subfamily A member 1 and MS4A1, is
	an activated-glycosylated phosphoprotein expressed on the surface of all B-cells beginning at
	the pro-B phase (CD45R+, CD117+) and progressively increasing in concentration until maturity.

CD20 is expressed on all stages of B cell development except the first and last, it is present from late pro-B cells through memory cells, but not on either early pro-B cells or plasma blasts and plasma cells. It is found on B-cell lymphomas, hairy cell leukemia, B-cell chronic lymphocytic leukemia, and melanoma cancer stem cells. The protein has no known natural ligand and its function is to enable optimal B-cell immune response, specifically against T-independent antigens. It is suspected that it acts as a calcium channel in the cell membrane. CD20 / MS4A1 is the target of the monoclonal antibodies (mAb) rituximab, Ibritumomab tiuxetan, and tositumomab, which are all active agents in the treatment of all B cell lymphomas and leukemias. Defects in CD20 / MS4A1 are the cause of immunodeficiency common variable type 5 (CVID5), also called antibody deficiency due to CD20 defect. CVID5 is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen.

Molecular Weight:

35.2 kDa

NCBI Accession:

NP_001274241

Application Details

Restrictions:

For Research Use only

Handling

Format:

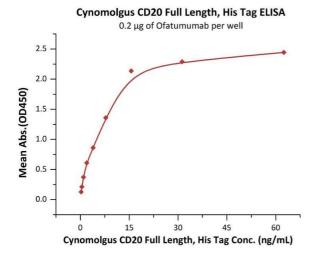
Liquid

Buffer:

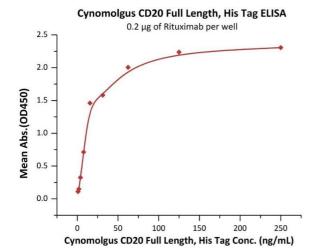
50 mM HEPES, 150 mM NaCl, DDM, CHS, pH 7.5

Storage:

-80 °C



kDa M R 116.0 66.2 45.0 35.0 25.0 18.4



ELISA

Image 1. Measured by its binding ability in a functional ELISA. Immobilized Ofatumumab at $2\,\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Cynomolgus CD20 Full Length, His Tag (ABIN6972969) with a linear range of 0.2-16 ng/mL (QC tested).

SDS-PAGE

Image 2. Cynomolgus CD20 Full Length, His Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than $90\,\%$.

ELISA

Image 3. Measured by its binding ability in a functional ELISA. Immobilized Rituximab at 2 μ g/mL (100 μ L/well) can bind Cynomolgus CD20 Full Length, His Tag (ABIN6972969) with a linear range of 1-31 ng/mL (QC tested).