Datasheet for ABIN7488793

CD20 Protein-VLP (GFP tag)

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Overview

Quantity:	100 µg
Target:	CD20 (MS4A1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	VLP
Purification tag / Conjugate:	This CD20 protein is labelled with GFP tag.

Product Details

Purpose:	Fluorescent Human CD20 Full Length Protein (VLP)
Sequence:	Met 1 - Pro 297
Characteristics:	Fluorescent Human CD20 Full Length Protein-VLP is expressed from human 293 cells (HEK293). It contains AA Met 1 - Pro 297 (Accession # NP_068769.2).
Endotoxin Level:	1.0 EU per µg

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.

Target Details

	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.
NCBI Accession:	NP_068769

Application Details

Comment:	This protein carries a GFP tag. (GFP Fusion,GFP)
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS, pH 7.4
Storage:	-80 °C
Storage Comment:	-70°C, avoid light