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Datasheet for ABIN7448156 CD20 Protein-VLP (AA 1-297)

3 Images



Overview

Quantity:	100 µg
Target:	CD20 (MS4A1)
Protein Characteristics:	AA 1-297
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	VLP
Biological Activity:	Active
Application:	Immunogen (Imm), ELISA, Functional Studies (Func), Surface Plasmon Resonance (SPR)

Product Details

Purpose:	Human CD20 Protein-VLP
Sequence:	Met1-Pro297
Characteristics:	Recombinant Human CD20 Protein-VLP is expressed from HEK293.It contains Met1-Pro297.
Purity:	> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per μ g by the LAL method.
Biological Activity Comment:	Immobilized Human CD20 VLP at 5µg/ml (100µl/Well) on plate on the plate. Dose response curve for Rituximab, hFc Tag with the EC50 of 8.7ng/ml determined by ELISA (QC Test).

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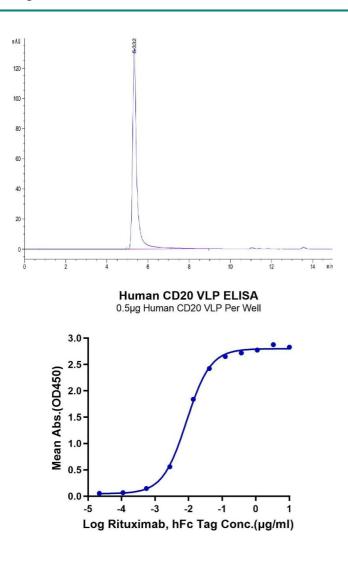
Target Details	
Target:	CD20 (MS4A1)
Alternative Name:	CD20 (MS4A1 Products)
Background:	B-lymphocyte antigen CD20 or CD20 is an activated-glycosylated phosphoprotein expressed on the surface of all B-cells beginning at the pro-B phase (CD45R, CD117) and progressively increasing in concentration until maturity.CD20 is the target of the monoclonal antibodies rituximab, ocrelizumab, obinutuzumab, ofatumumab, ibritumomab tiuxetan, tositumomab, and ublituximab, which are all active agents in the treatment of all B cell lymphomas, leukemias, and B cell-mediated autoimmune diseases.
Molecular Weight:	34.3 kDa.
Application Details	
Application Notes:	 Antibody Discovery: Immunization, Screening, Functional Characterization Affinity determination: ELISA, SPR In vivo pharmacokinetic analysis CMC method development CAR-T Positive Rate Detection Blood sample determination: ELISA
Comment:	Virus-like particles (VLPs) are formed from the outer capsid protein of a virus and are tiny nanoparticles formed by the automatic assembly of one or more capsid proteins. VLPs do not contain viral infectious genomes, so they are relatively safe during production operations. The SAMS [™] protein engineering platform has been used to express a series of biotinylated, non-biotinylated, and fluorescently-labeled VLP-displayed antigens. They are suitable for SPR, ELISA, CAR-T positive rate detection, and other experimental scenarios.
	Virus-Like Particles (VLPs) are highly immunogenic, meaning that they can elicit a strong immune response in the host. VLPs are recognized by the immune system and are taken up by antigen-presenting cells (APCs) such as dendritic cells. Once taken up by APCs, VLPs are processed and presented to T cells, which can trigger the activation of B cells to produce antibodies against the displayed antigen. Because VLPs resemble the structure and composition of native viruses, they are highly effective at inducing both humoral and cellular immune responses.
	Generally, VLPs range in size from approximately 20 to 200 nanometers (nm). Compared to a cell-based immunization approach, their smaller size can optimize the immune response to

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Application Details		
	target the specific antigen displayed on the surface of the engineered VLPs.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	Supplied as 0.22µm filtered solution in PBS (pH 7.4). Notice: If you need it for immunization, Do Not use any adjuvant.	
Storage:	-80 °C	
Storage Comment:	Valid for 12 months from date of receipt when stored at -80°C., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.	
Expiry Date:	12 months	

Images

• 1



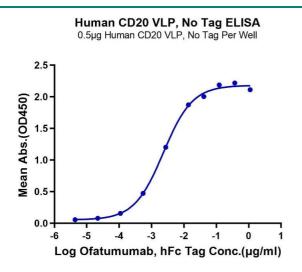
Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1. The purity of Human CD20 VLP is greater than 95 % as determined by SEC-HPLC.

ELISA

Image 2. Immobilized Human CD20 VLP at $5 \mu g/mL$ (100 μ L/Well) on plate on the plate. Dose response curve for Rituximab, hFc Tag with the EC50 of 8.7 ng/mL determined by ELISA (QC Test).

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ELISA

Image 3. Immobilized Human CD20 VLP at $5 \mu g/mL$ (100 μ L/Well) on plate on the plate. Dose response curve for Ofatumumab, hFc Tag with the EC50 of 2.3 ng/mL determined by ELISA (QC Test).

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