.-online.com antibodies

Datasheet for ABIN7448171 GPRC5D Protein-VLP (AA 1-344)

2 Images



Overview

Quantity:	100 µg
Target:	GPRC5D
Protein Characteristics:	AA 1-344
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	VLP
Biological Activity:	Active
Application:	ELISA, Functional Studies (Func), Immunogen (Imm), Surface Plasmon Resonance (SPR)

Product Details

Purpose:	Mouse GPRC5D Protein-VLP
Sequence:	Met1-Leu344
Characteristics:	Recombinant Mouse GPRC5D Protein-VLP is expressed from HEK293.It contains Met1-Leu344.
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 Mouse GPRC5D VLP (100µl/well) at 5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-GPRC5D Antibody, hFc Tag with the EC50 of 7.6ng/ml determined by ELISA.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN7448171 | 01/18/2024 | Copyright antibodies-online. All rights reserved.

Target Details

Target:	GPRC5D
Alternative Name:	GPRC5D (GPRC5D Products)
Background:	Chimeric antigen receptor (CAR) T cells, a type of cell-based immunotherapy, have shown some
	promising results in multiple myeloma, a bone marrow cancer. The orphan G protein-coupled
	receptor, class C group 5 member D (GPRC5D), normally expressed only in the hair follicle,
	Using quantitative immunofluorescence, we determined that GPRC5D protein is expressed on
	CD138 MM cells from primary marrow samples with a distribution that was similar to, but
	independent of, BCMA.
Molecular Weight:	39.90 kDa.
Application Details	
Application Notes:	Antibody Discovery: Immunization, Screening, Functional Characterization
	Affinity determination: ELISA, SPR
	In vivo pharmacokinetic analysisCMC 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

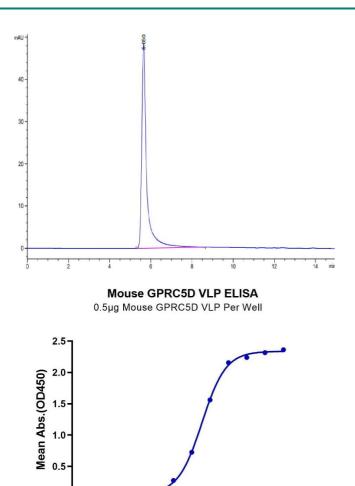
Generally, VLPs range in size from approximately 20 to 200 nanometers (nm). Compared to a cell-based immunization approach, their smaller size can optimize the immune response to

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN7448171 | 01/18/2024 | Copyright antibodies-online. All rights reserved.

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

0.0



Log Anti-GPRC5D Antibody, hFc Tag Conc.(µg/ml)

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1. The purity of Mouse GPRC5D VLP is greater than 95 % as determined by SEC-HPLC.

ELISA

Image 2. Immobilized Mouse GPRC5D VLP (100 μ L/well) at 5 μ g/mL (100 μ L/Well) on the plate. Dose response curve for Anti-GPRC5D Antibody, hFc Tag with the EC50 of 7.6 ng/mL determined by ELISA.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/3 | Product datasheet for ABIN7448171 | 01/18/2024 | Copyright antibodies-online. All rights reserved.