

Recombinant Human MS4A1 Protein, Full Length

Cat. No. MS4A1-23HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MS4A1 (P11836-1, Met1-Pro297) partial recombinant protein without tag was expressed in HEK293 cells.
Species	Human
Source	HEK293
ProteinLength	Full length
Description	This gene encodes a member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and nonlymphoid tissues. This gene encodes a B-lymphocyte surface molecule which plays a role in the development and differentiation of B-cells into plasma cells. This family member is localized to 11q12, among a cluster of family members. Alternative splicing of this gene results in two transcript variants which encode the same protein.
Form	Lyophilized
Bio-activity	The EC50 was 8.7 ng/mL, measured by ELISA at 5 µg/mL.
Molecular Mass	34.3 kDa
Endotoxin	< 1.0 EU/µg of the protein by the LAL method.

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Purity	> 95% as determined by HPLC
Applications	1. Enzyme-linked Immunoabsorbent Assay: Immobilized Human CD20 VLP at 5 µg/mL (100 µL/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). 2. Functional Study 3. SDS-PAGE
Notes	Result of bioactivity analysis
Usage	Biological Activity ELISA The optimal working dilution should be determined by the end user.
Storage	Store at 2 centigrade to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 µg/mL

GENE INFORMATION

Gene Name	MS4A1 membrane spanning 4-domains A1 [Homo sapiens (human)]
Official Symbol	MS4A1
Synonyms	MS4A1; membrane spanning 4-domains A1; B1; S7; Bp35; CD20; FMC7; CVID5; LEU-16; B-lymphocyte antigen CD20; B-lymphocyte cell-surface antigen B1; CD20 antigen; CD20 receptor; leukocyte surface antigen Leu-16; membrane-spanning 4-domains, subfamily A, member 1

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Gene ID 931

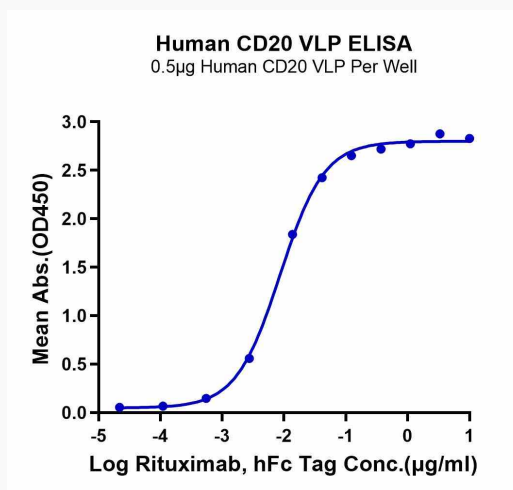
mRNA Refseq NM_021950

Protein Refseq NP_068769

MIM 112210

UniProt ID P11836

**Enzyme-linked
Immunoabsorbent
Assay**



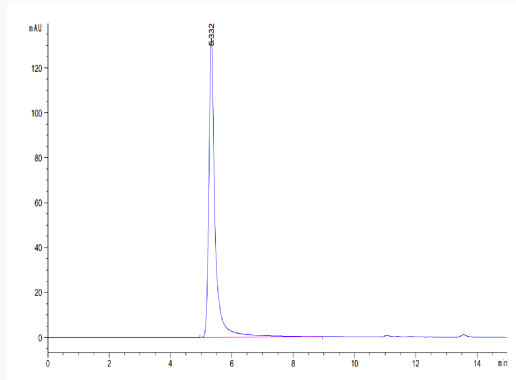
Immobilized Human CD20 VLP at 5 µg/mL (100 µL/Well) on plate on the plate.
Dose response curve for Rituximab, hFc Tag with the EC50 of 8.7 ng/mL
determined by ELISA (QC Test).

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SEC-HPLC



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

Electron microscopy analysis of purified hemocyanin.

From the data, most of hemocyanin is present as a tetramer in physical environment

Shrimp hemocyanin owns the comparable immunogenicity to KLH.

In each group, 3 female mice were used for immunization at the induced time in figure. Elisa was used to detect the level of anti-SHC or anti-KLH antibodies.

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