

## B-lymphocyte antigen CD20 (MS4A1) Recombinant Protein | MS4A1 recombinant protein

Recombinant Dog B-lymphocyte antigen CD20 (MS4A1)-VLPs (Active)

CATALOG #  
**AAA279281**

HOST  
**Mammalian cell**

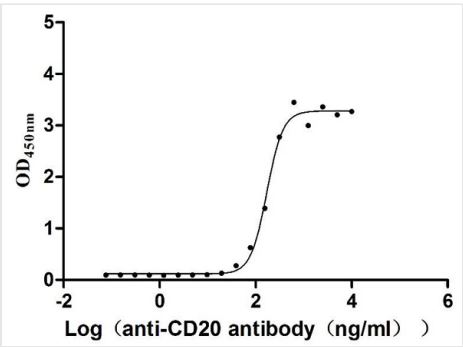
### PRODUCT SYNONYMS

B-lymphocyte antigen CD20 (MS4A1); Recombinant Dog B-lymphocyte antigen CD20 (MS4A1)-VLPs (Active); Membrane-spanning 4-domains subfamily A member 1; CD antigen CD20; MS4A1 recombinant protein

### PRODUCT SPECIFICATIONS

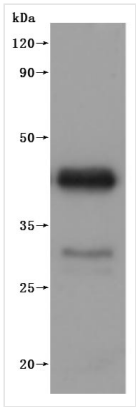
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|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Mammalian cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Purity/Purification     | The purity information is not available for VLPs proteins.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Form/Format             | Lyophilized powder<br>Lyophilized from a 0.2 um filtered PBS, 6% Trehalose, pH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sequence Positions      | 1-297aa; Full Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sequence                | MTTPRNSMSG TLPVDPMKSP TAMYPVQKII PKRMPSVVG P TQNFFMRESK TLGAVQIMNG LFHIALGSL L<br>MIHTDVCAP I CITMWYPLWG GIMFIISGSL LAAADKNPRK SLVKGKMIMN SLSLFAAISG IIFLIMDIFN<br>ITISHFFKME NLNLKAPMP YVDIHNCDPA NPSEKNSLSI QYCGSIRS VF LGVFAVMLIF AFFQKLVTAG<br>IVENEWKKLC SKPKSDVVVL LAAEEKKEQP IETTEEMVEL TEIASQPKKE EDIEIIPVQE EEEGELEINFA<br>EPPQEQESS P IENDSIP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Species                 | Canis lupus familiaris (Dog)(Canis familiaris)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Tag                     | C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Research Area           | CancerLess than 1.0 EU/ug as determined by LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Transmembrane Domain    | 4TM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Biological Activity     | Measured by its binding ability in a functional ELISA. Immobilized Dog CD20 at 10 ug/mL can bind Anti-CD20 recombinant antibody, the EC50 is 147.3-199.0 ng/mL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Preparation and Storage | <p>The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C.</p> <p>We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. Aliquot for long-term storage at -80 degree C. Solubilize for 60 minutes at room temperature with occasional gentle mixing. Avoid vigorous shaking or vortexing.</p> <p>The VLPs are expressed from human 293 cells (HEK293). Mix the sample gently by repeatedly pipetting it up and down. Do not vortex. Repeated freezing and thawing is not recommended. Store the protein at -20 degree C/-80 degree C upon receiving it, and ensure to avoid repeated freezing and thawing, otherwise, it will affect the protein activity. The immunization strategy should be optimized (antigen dose, regimen and adjuvant).</p> |

IMAGES



Bioactivity

Activity Measured by its binding ability in a functional ELISA. Immobilized Dog CD20 at 10 ug/ml can bind Anti-CD20 recombinant antibody, the EC50 is 147.3-199.0 ng/mL.



Application Data

is detected by Mouse anti-6\*His monoclonal antibody.

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for MS4A1 recombinant protein | B-lymphocyte-specific membrane protein that plays a role in the regulation of cellular calcium influx necessary for the development, differentiation, and activation of B-lymphocytes. Functions as a store-operated calcium (SOC) channel component promoting calcium influx after activation by the B-cell receptor/BCR. |
| Product Categories/Family for MS4A1 recombinant protein   | MP-VLP Transmembrane Protein & Active Protein & In Stock Protein                                                                                                                                                                                                                                                           |

NCBI AND UNIPROT INFORMATION

|                            |                           |
|----------------------------|---------------------------|
| UniProt Accession #        | Q3C2E2                    |
| Molecular Weight           | 34.4kDa                   |
| UniProt Protein Name       | B-lymphocyte antigen CD20 |
| UniProt Gene Name          | MS4A1                     |
| UniProt Synonym Gene Names | CD20                      |
| UniProt Entry Name         | CD20_CANFA                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ms4a1-recombinant-protein-mammalian-cell/279281>