

# Canine CD20 Full Length Protein (VLP)

Catalog # CD0-C52P3



BIOSYSTEMS  
**Acro**

## Synonym

MS4A1,CD20,MS4A-1

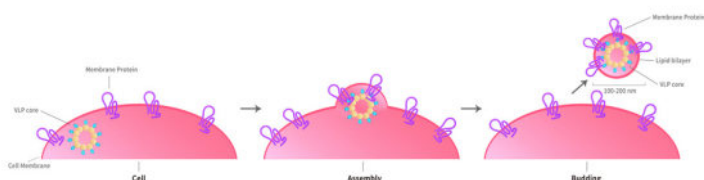
## Source

Canine CD20 Full Length Protein (VLP)(CD0-C52P3) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Pro 297 (Accession # [Q3C2E2-1](#)).

Predicted N-terminus: Met 1

## Molecular Characterization

Virus-like particles(VLPs) are formed by self-assembly of envelop/capsid proteins from viruses. Membrane Proteins can be constituted in-situ with VLPs produced from HEK293 cell cultures. These VLPs concentrate conformationally intact membrane proteins directly on the cell surface and produce soluble, high-concentration proteins perfect for immunization and antibody screening.



The VLPs provide the display of properly folded membrane proteins in their native cellular membrane in a compact size of 100~300 nm diameter (similar to the size of most viruses) making it optimal targets for dendritic cells in vivo and surface attachment for phage display.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

\*The isotype control of empty/mock VLP (Cat. No. [VLP-N5213](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

## Formulation

*The VLPs are highly immunogenic, so the immunization strategy should be optimized (antigen dose, regimen and adjuvant).*

Supplied as 0.2 µm filtered solution in PBS, Arginine, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

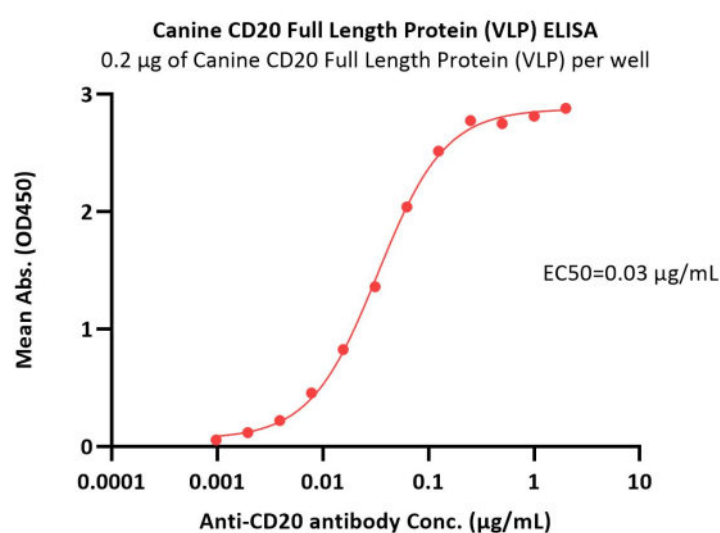
## Storage

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

## Bioactivity-ELISA



Immobilized Canine CD20 Full Length Protein (VLP) (Cat. No. CD0-C52P3) at 2 µg/mL (100 µL/well) can bind Anti-CD20 antibody with a linear range of 0.01-0.625 µg/mL (QC tested).

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## Background

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 protein can be used for screening and validation of dog CD20 antibody.

## Clinical and Translational Updates

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