Canine CD20 Full Length Protein (VLP)

Catalog # CD0-C52P3

Synonym

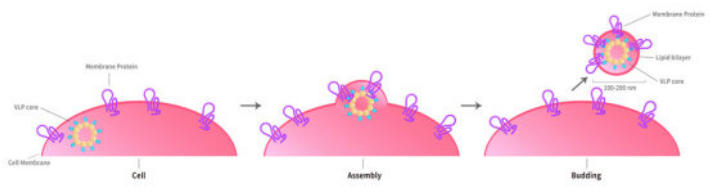
MS4A1,CD20,MS4A-1

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 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.

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

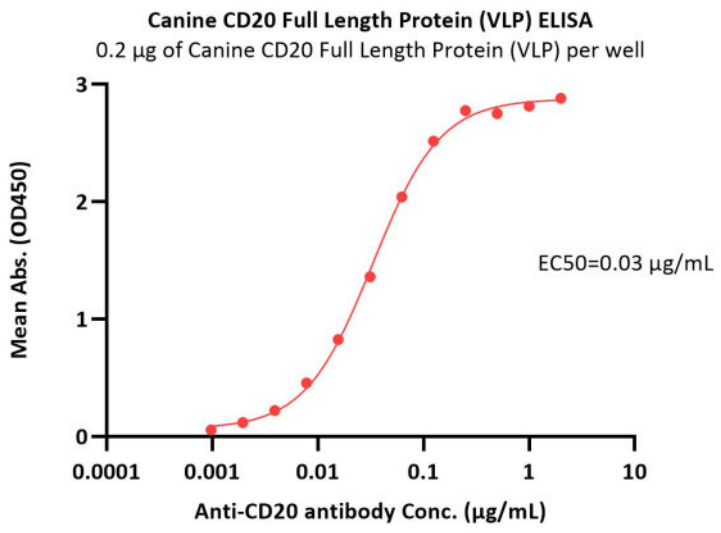
Please avoid repeated freeze-thaw cycles.

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.

*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.

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).

Background

Canine CD20 Full Length Protein (VLP)

Catalog # CD0-C52P3

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.