

**CD20**  
**Catalog # PVGS1638****Specification**

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**CD20 - Product Information**

Primary Accession [P11836](#)  
**Species**  
Human

**Sequence**  
Ile141-Ser188

**Purity**  
> 95% as analyzed by SDS-PAGE

**Endotoxin Level**  
≤ 1 EU/ µg of protein by LAL method

**Biological Activity**  
Immobilized Human CD20 at 1.0 µg/ml (100 µl/Well), dose response curve for rituximab with the EC<sub>50</sub> of 0.8 µg/ml determined by ELISA.

**Expression System**  
E. coli

Formulation **Supplied as a 0.22 µm filtered solution in 20 mM PB, 10% glycerol, pH 7.0.**

**Storage & Stability**  
Upon receiving, this product remains stable for up to 6 months at -70°C or below, the product can be stored for 2-3 weeks at 2-8°C or 3 months at -20°C. Avoid repeated freeze-thaw cycles.

**CD20 - Additional Information**

**Gene ID** 931

**Other Names**  
B-lymphocyte antigen CD20, B-lymphocyte surface antigen B1, Bp35, Leukocyte surface antigen Leu-16, Membrane-spanning 4-domains subfamily A member 1, CD20, MS4A1, CD20

**Target Background**  
B-lymphocyte antigen CD20 or CD20 is an activated-glycosylated phosphoprotein expressed on the surface of all B-cells beginning at the pro-B phase (CD45R , CD117 ) and progressively increasing in concentration until maturity. CD20 is the target of the monoclonal antibodies rituximab, ocrelizumab, obinutuzumab, ofatumumab, ibritumomab tiuxetan, tositumomab, and ublituximab, which are all active agents in the treatment of all B cell lymphomas, leukemias, and B cell-mediated autoimmune diseases.

**CD20 - Protein Information**

**Name** MS4A1

**Synonyms** CD20

**Function**

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 (PubMed:<a href="http://www.uniprot.org/citations/12920111" target="\_blank">12920111</a>, PubMed:<a href="http://www.uniprot.org/citations/3925015" target="\_blank">3925015</a>, PubMed:<a href="http://www.uniprot.org/citations/7684739" target="\_blank">7684739</a>). Functions as a store-operated calcium (SOC) channel component promoting calcium influx after activation by the B-cell receptor/BCR (PubMed:<a href="http://www.uniprot.org/citations/12920111" target="\_blank">12920111</a>, PubMed:<a href="http://www.uniprot.org/citations/18474602" target="\_blank">18474602</a>, PubMed:<a href="http://www.uniprot.org/citations/7684739" target="\_blank">7684739</a>).

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Cell membrane; Lipid-anchor. Note=Constitutively associated with membrane rafts.

**Tissue Location**

Expressed on B-cells.

**CD20 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**CD20 - Images**