

CD19

Catalog # PVGS1934

Product Information

Primary Accession P25918
Species Mouse

Sequence Arg19-Gly287

Purity > 90% as determined by Bis-Tris PAGE

Endotoxin Level Less than 1EU per Ig by the LAL method.

Expression System HEK293

Theoretical Molecular Weight 30.7 kDa

Formulation Lyophilized from a 0.22 Im filtered solution in PBS, (pH 7.4).

Reconstitution Centrifuge the tube before opening. Reconstituting to a concentration more

than 100 [g/ml is recommended. Dissolve the lyophilized protein in distilled

water.

Storage & Stability Upon receiving, the product remains stable up to 6 months at -20 °C or below.

Upon reconstitution, the product should be stable for 3 months at -80 °C.

Avoid repeated freeze-thaw cycles.

Additional Information

Gene ID 12478

Other Names B-lymphocyte antigen CD19, Differentiation antigen CD19, CD19, Cd19

Target Background CD19 is a 95 kDa transmembrane glycoprotein that plays a central role in B

cell activation and humoral immune responses. Functions as coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes. Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens. Activates signaling pathways that lead to the

activation of phosphatidylinositol 3-kinase and the mobilization of

intracellular Ca2 stores.

Protein Information

Name Cd19

Function Functions as a coreceptor for the B-cell antigen receptor complex (BCR) on

B-lymphocytes. Decreases the threshold for activation of downstream

signaling pathways and for triggering B-cell responses to antigens (By similarity). Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca(2+) stores (PubMed:12387743, PubMed:20101619, PubMed:9382888). Is not required for early steps during B cell differentiation in the blood marrow (PubMed:7542548, PubMed:7543183, PubMed:9317126). Required for normal differentiation of B-1 cells (PubMed:12387743, PubMed:7542548, PubMed:7543183). Required for normal B cell differentiation and proliferation in response to antigen challenges (PubMed:12387743, PubMed:7542548, PubMed:9317126). Required for normal levels of serum immunoglobulins, and for production of high- affinity antibodies in response to antigen challenge (PubMed:12387743, PubMed:7542548, PubMed:7543183).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Membrane raft; Single-pass type I membrane protein

Tissue Location

Detected on B cells in spleen, bone marrow, thymus and lymph nodes (PubMed:12387743, PubMed:20101619, PubMed:7542548) Detected on peripheral blood lymphocytes (at protein level) (PubMed:7543183).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.