

Product datasheet for TP700295

CD19 (NM_001770) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins Description: Purified recombinant protein of human CD19 molecule (CD19), transcript variant 2, with Cterminal DDK/His tag, expressed in human cells, 20 µg Species: Human **Expression Host:** HEK293T **Expression cDNA Clone** A DNA sequence from TrueORF clone, RC202922, encoding the region (Pro20 – Lys291) of or AA Sequence: human CD19 C-DDK/His Tag: 32 kDa Predicted MW: **Concentration:** >0.05 µg/µL as determined by microplate BCA method **Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining **Buffer:** PBS, pH 7.4, 10% glycerol Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. Store at -80°C. Storage: Stable for 12 months from the date of receipt of the product under proper storage and Stability: handling conditions. Avoid repeated freeze-thaw cycles. **RefSeq:** NP 001761 930 Locus ID: **UniProt ID:** P15391 **RefSeq Size:** 1965 Cytogenetics: 16p11.2 **RefSeq ORF:** 1668 Synonyms: B4; CVID3



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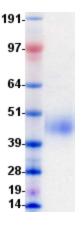
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This gene encodes a member of the immunoglobulin gene superfamily. Expression of this cell Summary: surface protein is restricted to B cell lymphocytes. This protein is a reliable marker for pre-B cells but its expression diminishes during terminal B cell differentiation in antibody secreting plasma cells. The protein has two N-terminal extracellular Ig-like domains separated by a non-Ig-like domain, a hydrophobic transmembrane domain, and a large C-terminal cytoplasmic domain. This protein forms a complex with several membrane proteins including complement receptor type 2 (CD21) and tetraspanin (CD81) and this complex reduces the threshold for antigen-initiated B cell activation. Activation of this B-cell antigen receptor complex activates the phosphatidylinositol 3-kinase signalling pathway and the subsequent release of intracellular stores of calcium ions. This protein is a target of chimeric antigen receptor (CAR) T-cells used in the treatment of lymphoblastic leukemia. Mutations in this gene are associated with the disease common variable immunodeficiency 3 (CVID3) which results in a failure of B-cell differentiation and impaired secretion of immunoglobulins. CVID3 is characterized by hypogammaglobulinemia, an inability to mount an antibody response to antigen, and recurrent bacterial infections. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2020]

Protein Families:Druggable Genome, TransmembraneProtein Pathways:B cell receptor signaling pathway, Hematopoietic cell lineage, Primary immunodeficiency

Product images:



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