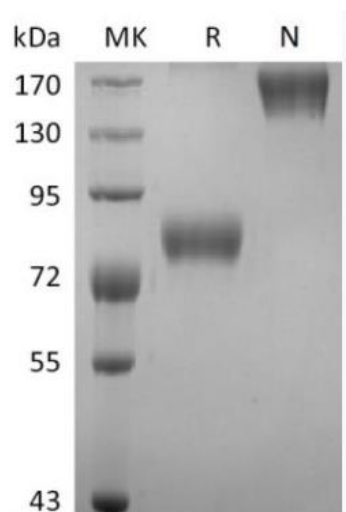


Recombinant Human CD19

Catalog No: C572

Description	Recombinant Human CD19 is produced by our Mammalian expression system and the target gene encoding Pro20-Lys291 is expressed with a Fc tag at the C-terminus.
Source	Human Cells
Alternative name	B-Lymphocyte Antigen CD19; B-Lymphocyte Surface Antigen B4; Differentiation Antigen CD19; T-Cell Surface Antigen Leu-12; CD19
Accession No.	P15391
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Reconstitution	<p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p> <p>It is not recommended to reconstitute to a concentration less than 100µg/ml.</p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Quality Control	<p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.</p>
Shipping	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
Storage	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
Amino Acid Sequence	<p>PEEPLVVKVEEGDNAVLQCLKGTS DGPTQQLTWSRESPLKPFLKLSGLPGLGIHMRPLAIWLFIFNVS</p> <p>QQMGGFYLCQPGPPS</p> <p>EKA WQPGWTVNVEGSGELFRWNVSDLGGLGCGLKNRSSEGPSSPSGKLMSPKLYVWAKDRPEIWE</p> <p>GEPPCLPPRDSL NQSL</p> <p>SQDLTMAPGSTLWLSCGVPPDSVSRGPLSWTHVHPKGPKSLLSLELKDDRPARDMWVVMETGLLLPR</p> <p>ATAQDAGKY YCHRG N</p> <p>LTMSFHLEITARPVLWHWLLRTGGWKVDDIEGRMDEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKP</p> <p>KDTLMISRTPEVTCVVV</p> <p>DVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPA</p> <p>PIEKTISKAKGQPREPQ</p> <p>VYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKS</p> <p>RWQQGNVFSCSVMHE</p> <p>ALHNHYTQKSLSLSPGK</p>
Background	<p>CD19 is a single-pass type I membrane protein containing 2 Ig-like C2-type (immunoglobulin-like) domains. CD19 is expressed on follicular dendritic cells and B cells. In fact, it is present on B cells from earliest recognizable B-lineage cells during development to B-cell blasts but is lost on maturation to plasma cells. CD19 primarily acts as a B cell co-receptor in conjunction with CD21 and CD81. Upon activation, the cytoplasmic tail of CD19 becomes phosphorylated, which leads to binding by Src-family kinases and recruitment of PI-3 kinase. CD19 Assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation. Defects in CD19 are the cause of immunodeficiency common variable type 3 (CVID3) which is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen.</p>

SDS-Page



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