


## Human CD19 protein, Fc tag (Animal-Free)

Cat #: PRP2030

Size: 10 µg/50 µg/100 µg/1 mg

### Product Information

	<b>Product Name:</b> Human CD19 protein, Fc tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP2030	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> >90% as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> HEK 293 Cells
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** CD19 is a B-lineage-specific transmembrane glycoprotein, the expression of which is maintained on more than 95% B-cell malignancies. This strict lineage restriction makes CD19 an ideal target for immune therapies using chimeric antigen receptors (CARs). In normal cells, it is the most ubiquitously expressed protein in the B lymphocyte lineage. CD19 expression is induced at the point of B lineage commitment during the differentiation of the hematopoietic stem cell, and its expression continues through preB and mature B cell differentiation until it is finally down-regulated during terminal differentiation into plasma cells. CD19 expression is maintained in B-lineage cells that have undergone neoplastic transformation, and therefore CD19 is useful in diagnosis of leukemias and lymphomas using monoclonal antibodies (mAbs) and flow cytometry.

**Sequence:** Amino acid sequence derived from human CD19 protein (P15391-1, Pro20-Lys291) was expressed with the Fc region of human IgG1 at the C-terminus.

**Protein length:** The recombinant human CD19 protein consists of 509 amino acids and predicts a molecular mass of 56.9 kD. The apparent molecular mass of the human CD19 is approximately 70-90 kDa in SDS-PAGE under reducing conditions due to glycosylation.

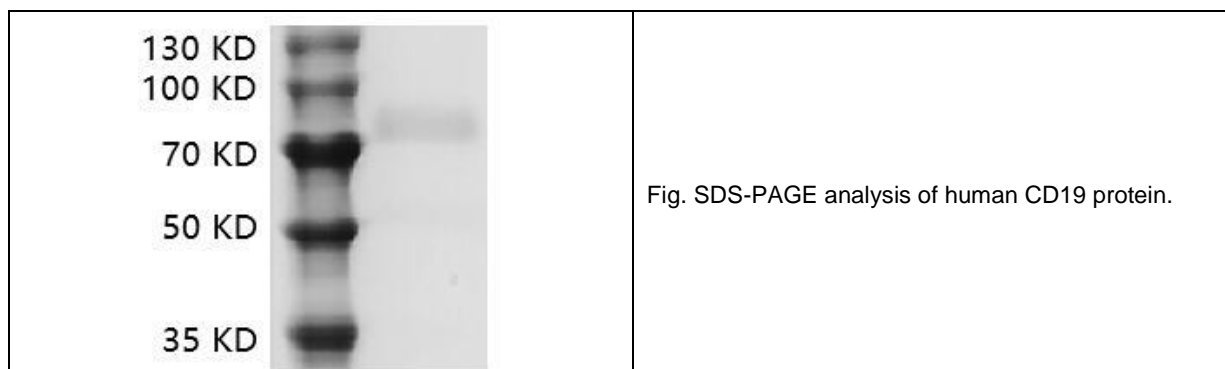
**Biological Activity:** Immobilized human CD19 at 2 µg/mL (100 µL/well) can bind anti-CD19 antibody, the EC<sub>50</sub> for this effect is 1.5 µg/mL.

**Endotoxin:** <1.0 EU per µg of the protein as determined by the LAL method.

**Formulation:** 0.22 µm filtered protein solution is in sterile PBS, pH 7.4.

**Storage Instructions:** Lyophilized human CD19 protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized human CD19 protein using the buffer we provided not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We can not be responsible for patent infringements or other violations that may occur with the use of this product.