

Cynomolgus/Rhesus macaque CD19 Protein

Cat. No. CD1-CM119

Description

Source	Recombinant Cynomolgus/Rhesus macaque CD19 Protein is expressed from HEK293 with His tag at the N-Terminus.; It contains Gln21 - Trp291.
Accession	A0A2K5W8L9
Molecular Weight	The protein has a predicted MW of 30.96 kDa. Due to glycosylation, the protein migrates to 50 - 70 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20°C to -80°C for 12 months as supplied from date of receipt.; -80°C for 3 - 6 months after reconstitution.; 2°C - 8°C for 2 - 7 days after reconstitution.; Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

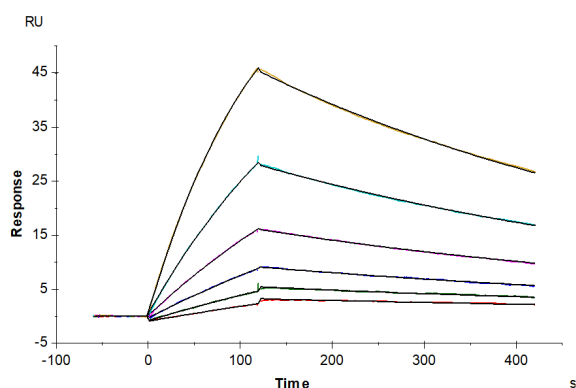
Assay Data

Tris-Bis PAGE



Cynomolgus/Rhesus macaque CD19 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SPR Data



Anti-CD19 Antibody, hFc Tag captured on CM5 Chip via Protein A can bind Cynomolgus/Rhesus macaque CD19, His Tag with an affinity constant of 0.48 µM as determined in SPR assay (Biacore T200).