

# Cynomolgus/Rhesus macaque CD19 Protein

Cat. No. CD1-CM119

## Description

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

## Formulation and Storage

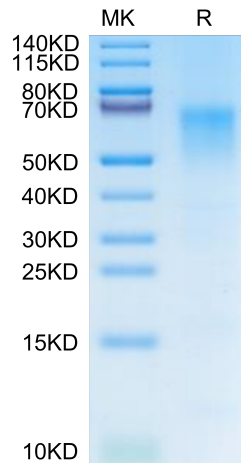
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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  $\text{Ca}^{2+}$  stores.

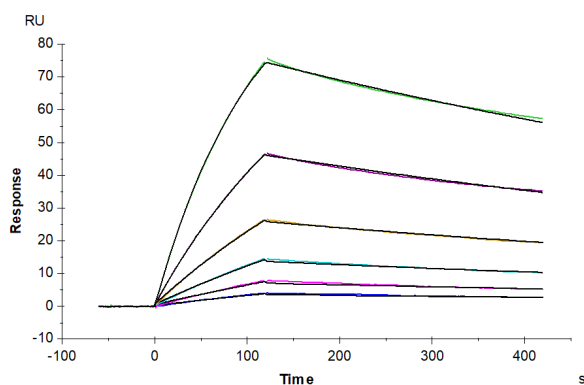
## Assay Data

### Bis-Tris PAGE



Cynomolgus/Rhesus macaque CD19 on Bis-Tris 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 0.46  $\mu\text{M}$  as determined in SPR assay (Biacore T200).