

CD19 Protein, Cynomolgus/Rhesus Macaque (273a.a, HEK293, Fc)

Cat. No.:	HY-P7833
Synonyms:	rRhCD19 molecule/CD19, Fc; B-Lymphocyte Antigen CD19; B-Lymphocyte Surface Antigen B4; Differentiation Antigen CD19; T-Cell Surface Antigen Leu-12; CD19
Species:	Rhesus Macaque
Source:	HEK293
Accession:	F7F486 (P20-K292)
Gene ID:	705211
Molecular Weight:	80-110 kDa

PROPERTIES

AA Sequence	<p>P Q E P L V V K V E E G D N A V L Q C L E G T S D G P T Q Q L V W C R D S P F E</p> <p>P F L N L S L G L P G M G I R M G P L G I W L L I F N V S N Q T G G F Y L C Q P</p> <p>G L P S E K A W Q P G W T V S V E G S G E L F R W N V S D L G G L G C G L K N R</p> <p>S S E G P S S P S G K L N S S Q L Y V W A K D R P E M W E G E P V C G P P R D S</p> <p>L N Q S L S Q D L T M A P G S T L W L S C G V P P D S V S R G P L S W T H V R P</p> <p>K G P K S S L L S L E L K D D R P D R D M W V V D T G L L L T R A T A Q D A G K</p> <p>Y Y C H R G N W T K S F Y L E I T A R P A L W H W L L R I G G W K</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CD19 is a signaling component of the B-cell receptor complex and a regulator that drives B-cell differentiation and germinal center (GC) formation by lowering the threshold for antigen-driven activation. CD19 forms a complex with multiple membrane proteins, including complement receptor type 2 (CD21) and tetraspanin (CD81), thereby lowering the threshold for antigen-primed B cell activation. The CD19 complex then activates the phosphatidylinositol 3-kinase signaling pathway and subsequently releases intracellular stored calcium ions. CD19 is used in chimeric antigen receptor (CAR) T cells to treat
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lymphocytic leukemia. Anti-CD19 CAR-T cell approaches have been used to treat B-cell malignancies and play a key role in systemic lupus erythematosus (SLE), where B-cell activation is dysregulated. CD19 also has a biological relationship with coronaviruses and may be involved in immune responses or antiviral activities.

Caution: Product has not been fully validated for medical applications. For research use only.

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