

CD20/MS4A1 Protein, Cynomolgus (85a.a, HEK293, His)

Cat. No.:	HY-P75433
Synonyms:	Ms4a1; Cd20; Ly-44; Ms4a2; B-lymphocyte antigen CD20; B-cell differentiation antigen Ly-44; Lymphocyte antigen 44; CD antigen
Species:	Cynomolgus
Source:	HEK293
Accession:	NP_001274241 (E213-P297)
Gene ID:	102118491
Molecular Weight:	22.66 & 24.28 kDa

PROPERTIES

AA Sequence	E N E W R R T C S R P K S S V V L L S A E E K K E Q V I E I K E E V V G L T E T S S Q P K N E E D I E I I P I Q E E E E E E T E T N F P E P P Q D Q E S S P I E N D S S P
Biological Activity	Measured in a cytotoxicity assay using Ramos cells. The ED ₅₀ this effect is 23.57 ng/mL, corresponding to a specific activity is 4.243×10 ⁴ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, 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	<p>The CD20/MS4A1 protein, a B-lymphocyte-specific membrane protein, plays a crucial role in regulating cellular calcium influx essential for the development, differentiation, and activation of B-lymphocytes. It functions as a component of the store-operated calcium (SOC) channel, promoting calcium influx upon activation by the B-cell receptor/BCR. CD20/MS4A1 forms homotetramers, contributing to its structural organization and functional role in calcium signaling. Notably, it interacts with both the heavy and light chains of cell surface IgM, the antigen-binding components of the BCR, highlighting its involvement in the B-cell receptor complex and underscoring its significance in B-cell activation and immune responses.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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