

CD20/MS4A1 Protein, Human (HEK293, His)

Cat. No.:	HY-P700898
Synonyms:	CRlg; Z39IG; VSIG4
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A7N9D9P6 (R25-A288)
Gene ID:	/
Molecular Weight:	70-80 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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	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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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