CD20/MS4A1 Protein, Human (His-Avi)

Cat. No.:	HY-P78086
Synonyms:	MS4A1; CD20; MS4A-1; B-lymphocyte surface antigen B1; Bp35; Leukocyte surface antigen Leu-16; Membrane-spanning 4-domains subfamily A member 11
Species:	Human
Source:	E. coli
Accession:	P11836 (I141-S188)
Gene ID:	931
Molecular Weight:	Approximately 16.8 kDa

PROPERTIES

Biological Activity	Immobilized Biotinylated Human CD20, His Tag at 1μg/ml (100μl/well) on the streptavidin precoated plate (5μg/ml). Dose response curve for Anti-CD20 Antibody, hFc Tag with the EC_{50} of 87.3ng/ml determined by ELISA.
Appearance	Solution.
Formulation	Supplied as a 0.22 μm filtered solution of 20 mM PB ,10% glycerol, pH 7.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

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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