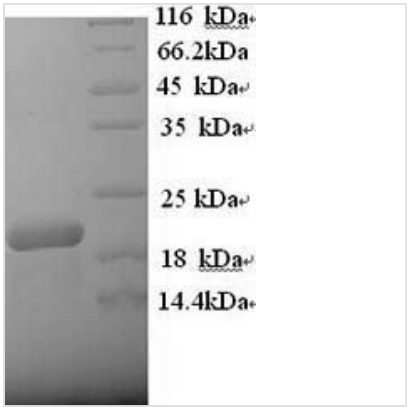
Recombinant Human B-lymphocyte antigen CD20 (MS4A1), partial

Product Code	CSB-YP015007HU1
Relevance	This protein may be involved in the regulation of B-cell activation and proliferation.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P11836
Alias	B-lymphocyte surface antigen B1Bp35Leukocyte surface antigen Leu-16Membrane-spanning 4-domains subfamily A member 1; CD20
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	IKISHFLKMESLNFIRAHTPYINIYNCEPANPSEKNSPSTQYCYSIQSLFLGILSV MLIFAFFQELVIAGIVENEWKRTCSRPKSNIVLLSAEEKKEQTIEIKEEVVGLTET SSQPKNEEDIEIIPIQEEEEEETETNFPEPPQDQESSPIENDSSP
Lead Time	3-7 business days
Research Area	Immunology
Source	Yeast
Gene Names	MS4A1
Expression Region	141-297aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	20.0kDa
Protein Description	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Yeast-expressed Recombinant partial-length Human B-lymphocyte antigen CD20 (MS4A1) contains the region of 141-297aa of human MS4A1. It was fused with a 6xHis-tag at the N-terminus. The purity of this protein is over 90% as measured by SDS-PAGE. On the reducing SDS-PAGE gel, this MS4A1 protein migrated to the molecular weight band of about 22 kDa. This observed molecular mass is slightly higher than the calculated one (20.0 kDa) due to glycosylation. Except for antibody synthesis, this recombinant MS4A1 protein also may be used in the studies of MS4A1-associated immunology.

CD20, encoded by the gene MS4A1, is a B cell differentiation antigen expressed from the pre-B to mature B cell stage, but lost upon terminal differentiation into plasma cells. CD20 is physiologically directly required for efficient BCR signaling in B cells. It normally exists as homodimeric and homotetrameric oligomers on the cell surface and combines with other cell-surface and cytoplasmic proteins, contributing to the signal transduction. Currently, CD20 antigen has been considered as an ideal target for immunotherapy of B cell malignancies and B cell-mediated autoimmune diseases.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.