

CD20/MS4A1 Protein, Human (Trx-His, Solution)

Cat. No.:	HY-P7896
Synonyms:	rHuB-lymphocyte antigen CD20/CD20, Trx-His; MS4A1; CD20; MS4A-1; B1; Bp35; CVID5; LEU-16; MS4A2; S7
Species:	Human
Source:	E. coli
Accession:	P11836 (I141-S188)
Gene ID:	931
Molecular Weight:	18-22 kDa

PROPERTIES

AA Sequence	I K I S H F L K M E S L N F I R A H T P Y I N I Y N C E P A N P S E K N S P S T Q Y C Y S I Q S
Biological Activity	Data is not available.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 50 mM Tris-HCl, 150 mM NaCl, 1 mM EDTA, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	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	CD20 is a non-glycosylated protein expressed on the surface of normal and malignant B lymphocytes, and belongs to the MS4A (membrane-spanning 4-domain family A) protein family. Human cluster of differentiation 20 (CD20) is an integral membrane protein expressed during B lymphocyte development. CD20 is involved in intracellular calcium signaling associated with the B cell receptor. CD20 is also expressed in malignant B cells and is the target of approved therapeutic monoclonal antibodies (mAbs), which are divided into two groups, type I and type II, on the basis of two signature differences: Type I mAbs recruit complement more potently than type II mAbs and therefore induce robust complement-dependent cytotoxicity (CDC); type I mAbs bind twice as many type II mAbs to a given B cell type ^{[1][2]} .
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REFERENCES

- [1]. Anand Kumar, et al. Binding mechanisms of therapeutic antibodies to human CD20. *Science*. 2020 Aug 14;369(6505):793-799.
- [2]. Gabriela Pavlasova, et al. The regulation and function of CD20: an "enigma" of B-cell biology and targeted therapy. *Haematologica*. 2020 Jun;105(6):1494-1506.
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Caution: Product has not been fully validated for medical applications. For research use only.

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