# Recombinant human MS4A1/CD20 protein

Catalog Number: ATGP3734

## PRODUCT INFORMATION

**Expression system**
Baculovirus

**Domain**
210-297aa

**UniProt No.**
P11836

**NCBI Accession No.**
NP_068769

**Alternative Names**
B-lymphocyte antigen CD20, MS4A1, B1, Bp35, CD20, CVID5, LEU-16, MS4A2, S7

## PRODUCT SPECIFICATION

**Molecular Weight**
11.1 kDa (97aa)

**Concentration**
0.5mg/ml (determined by absorbance at 280nm)

**Formulation**
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

**Purity**
> 90% by SDS-PAGE

**Endotoxin level**
< 1 EU per 1ug of protein (determined by LAL method)

**Tag**
His-Tag

**Application**
SDS-PAGE

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**Description**
MS4A1, also known as B-lymphocyte antigen CD20, is an activated-glycosylated phosphoprotein expressed on the surface of all B-cells beginning at the pro-B phase and progressively increasing in concentration until maturity. It is to enable optimal B-cell immune response, specifically against T-independent antigens. It is suspected that it acts as a calcium channel in the cell membrane. It plays a role in the microenvironmental

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interactions of B cells. This structurally unique phosphoprotein plays a role in the regulation of human B cell proliferation and differentiation. It was strongly phosphorylated on resting B cells after CDw40 stimulation, suggesting that it may be functionally regulated by a protein kinase. Recombinant human MS4A1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

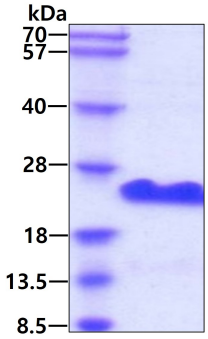
<ADP>GIVENEW KRTCSRPKSN IVLLSAEEKK EQTIEIKEEV VGLTETSSQP KNEEDIEIIP IQEEEEEETE TNFPEPPQDQ ESSPIENDSS P<HHHHHH>

### General References

Kuijpers TW., et al. (2010) J Clin Invest. 120:214-222.
Pavlasova G., et al. (2016) Blood. 128:1609-1613.

## DATA

### SDS-PAGE




3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.