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# Recombinant Human CD20/MS4A1 Protein (aa 213-297, His Tag)

Catalog Number: PKSH031312

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

**Species** Human

Source HEK293 Cells-derived Human CD20/MS4A1 protein Glu213-Pro297, with an N-terminal

His

Calculated MW 12.1 kDa Observed MW 23 kDa Accession NP 068769.2

Not validated for activity **Bio-activity** 

## **Properties**

> 83 % as determined by reducing SDS-PAGE. **Purity** 

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

This product is provided as lyophilized powder which is shipped with ice packs. Shipping

Lyophilized from sterile PBS, pH 7.4 **Formulation** 

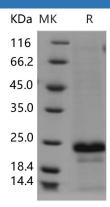
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

#### Data



> 83 % as determined by reducing SDS-PAGE.

## Background

## Elabscience Bionovation Inc.



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CD20 (membrane-spanning 4-domains; subfamily A; member 1); also known as MS4A1; is a member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and nonlymphoid tissues. CD20 / MS4A1 is expressed on all stages of B cell development except the first and last. CD20 / MS4A1 is present from pre-pre B cells through memory cells; but not on either pro-B cells or plasma cells. It is a B-lymphocyte surface molecule which plays a role in the development and differentiation of B-cells into plasma cells. CD20 / MS4A1 may be involved in the regulation of B-cell activation and proliferation. Defects in CD20 / MS4A1 are the cause of immunodeficiency common variable type 5(CVID5). CVID5 is a primary immunodeficiency characterized by antibody deficiency; hypogammaglobulinemia; recurrent bacterial infections and an inability to mount an antibody response to antigen. The defect results from a failure of B-cell differentiation and impaired secretion of immunoglobulins; the numbers of circulating B-cells is usually in the normal range; but can be low.

For Research Use Only

 Toll-free: 1-888-852-8623
 Tel: 1-832-243

 Web:w w w .elabscience.com
 Email:techsup

Fax: 1-832-243-6017