

## Recombinant Human MS4A1, Fc-tagged, Biotinylated

**Cat. No.** MS4A1-278H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Biotinylated Human CD20 Protein, With N-Fc Tag (Biotinylated CD20) Ile 141 – Tyr 184, was labeled with biotin based on rhCD20 Protein, which was produced in human 293 cells (HEK293).  |
| <b>Species</b>          | Human   |
| <b>Source</b>           | HEK293  |
| <b>Description</b>      | This gene encodes 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. This gene encodes a B-lymphocyte surface molecule which plays a role in the development and differentiation of B-cells into plasma cells. This family member is localized to 11q12, among a cluster of family members. Alternative splicing of this gene results in two transcript variants which encode the same protein. |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Trehalose are added as protectants before lyophilization.  |
| <b>Molecular Mass</b>   | Biotinylated CD20, fused with Fc fragment of human IgG1 at the N-terminus, has a calculated MW of 32.6 kDa. The predicted N-terminus is Ile 141 . DTT-reduced Protein migrates as 42 kDa due to glycosylation.  |
| <b>Endotoxin</b>        | Less than 1.0 EU per  |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                    |   |
|--------------------|---|
|                    | µg of the Biotinylated CD20 by the LAL method.  |
| <b>Purity</b>      | >95% as determined by reduced SDS-PAGE.   |
| <b>Storage</b>     | Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C). |
| <b>Conjugation</b> | Biotin  |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | <a href="#">MS4A1 membrane-spanning 4-domains, subfamily A, member 1 [ Homo sapiens ]</a>   |
| <b>Official Symbol</b> | MS4A1   |
| <b>Synonyms</b>        | MS4A1; membrane-spanning 4-domains, subfamily A, member 1; CD20; B-lymphocyte antigen CD20; B1; Bp35; MS4A2; CD20 antigen; CD20 receptor; leukocyte surface antigen Leu-16; B-lymphocyte cell-surface antigen B1; S7; CVID5; LEU-16; MGC3969; |
| <b>Gene ID</b>         | <a href="#">931</a>   |
| <b>mRNA Refseq</b>     | <a href="#">NM_021950</a>   |
| <b>Protein Refseq</b>  | <a href="#">NP_068769</a>   |
| <b>MIM</b>             | <a href="#">112210</a>  |
| <b>UniProt ID</b>      | <a href="#">P11836</a>  |

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|----------------------------|---|
| <b>Chromosome Location</b> | 11q12-q13.1   |
| <b>Pathway</b>             | Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; |
| <b>Function</b>            | epidermal growth factor receptor binding;   |

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