

CD20/MS4A1 Protein, Mouse (P.pastoris, His)

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| Cat. No.: | HY-P71758 |
| Synonyms: | Ms4a1; Cd20; Ly-44; Ms4a2; B-lymphocyte antigen CD20; B-cell differentiation antigen Ly-44; Lymphocyte antigen 44; CD antigen |
| Species: | Mouse |
| Source: | P. pastoris |
| Accession: | P19437 (V111-P291) |
| Gene ID: | 12482 |
| Molecular Weight: | Approximately 33 kDa. The reducing (R) protein migrates as 33 kDa in SDS-PAGE maybe due to glycosylation. |

PROPERTIES

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| AA Sequence | <p>V I M S S L S L F A A I S G I I L S I M D I L N M T L S H F L K M R R L E L I Q</p> <p>T S K P Y V D I Y D C E P S N S S E K N S P S T Q Y C N S I Q S V F L G I L S A</p> <p>M L I S A F F Q K L V T A G I V E N E W K R M C T R S K S N V V L L S A G E K N</p> <p>E Q T I K M K E E I I E L S G V S S Q P K N E E E I E I I P V Q E E E E E E A E</p> <p>I N F P A P P Q E Q E S L P V E N E I A P</p> |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized after extensive dialysis against solution in 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0. |
| Endotoxin Level | <1 EU/μg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

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| Background | <p>CD20/MS4A1 protein is a B-lymphocyte-specific membrane protein that plays a crucial role in regulating cellular calcium influx, which is necessary for the development, differentiation, and activation of B-lymphocytes. It functions as a component of store-operated calcium (SOC) channels, promoting calcium influx upon activation by the B-cell receptor/BCR. CD20/MS4A1 protein forms homotetramers and interacts with the heavy and light chains of cell surface IgM, which are the antigen-binding components of the BCR.</p> |
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Caution: Product has not been fully validated for medical applications. For research use only.

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