

## CD20 Protein, Human (Trx)

<b>Cat. No.:</b>	HY-P700295
<b>Synonyms:</b>	Ms4a1; Cd20; Ly-44; Ms4a2; B-lymphocyte antigen CD20; B-cell differentiation antigen Ly-44; Lymphocyte antigen 44; CD antigen
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P11836/NP_068769.2 (I141-S188)
<b>Gene ID:</b>	931
<b>Molecular Weight:</b>	28.2 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>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</p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from sterile 50mM Tris, 1mM EDTA, 5% Glycerol, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>The CD20/MS4A1 protein, a B-lymphocyte-specific membrane protein, plays a crucial role in regulating cellular calcium influx essential for the development, differentiation, and activation of B-lymphocytes. It functions as a component of the store-operated calcium (SOC) channel, promoting calcium influx upon activation by the B-cell receptor/BCR. CD20/MS4A1 forms homotetramers, contributing to its structural organization and functional role in calcium signaling. Notably, it interacts with both the heavy and light chains of cell surface IgM, the antigen-binding components of the BCR, highlighting its involvement in the B-cell receptor complex and underscoring its significance in B-cell activation and immune responses.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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