

Siglec-2/CD22 Protein, Mouse (690a.a, HEK293, Fc)

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| Cat. No.: | HY-P73646 |
| Synonyms: | B-cell receptor CD22; BL-CAM; Siglec-2; CD22; SIGLEC2 |
| Species: | Mouse |
| Source: | HEK293 |
| Accession: | BAE33829 (R19-R708) |
| Gene ID: | 12483 |
| Molecular Weight: | Approximately 125 kDa |

PROPERTIES

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| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. |
| Endotoxin Level | <1 EU/ μ g, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 μ g/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 | Siglec-2 (CD22) specifically recognizes α 2.6 sialic acid-containing glycans and is expressed on B cells, the precursors of antibody secreting cells, plasma cells. Siglec-2 negatively regulates signaling through the B cell antigen receptor (BCR), which plays a crucial role in response of B cells to antigen stimulation. Siglec-2 negatively regulates BCR signaling by recruitment and activation of SH2-containing phosphatase 1 (SHP-1), which counteracts the phosphorylation-mediated activation of signaling molecules by dephosphorylation, and reduces Ca ²⁺ signaling by regulating the activity of the Ca ²⁺ pump PMCA. After stimulation of the BCR by antigen, CD22 is tyrosine-phosphorylated on its intracellular tail. CD22 exhibits hallmarks of clathrin-mediated endocytosis and traffics to recycling compartments ^{[1][2]} . |
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Caution: Product has not been fully validated for medical applications. For research use only.

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