

CD200 Protein, Rhesus Macaque (HEK293, His)

Cat. No.:	HY-P76212
Synonyms:	OX-2 membrane glycoprotein; CD200; MOX1; MOX2; My033
Species:	Rhesus Macaque
Source:	HEK293
Accession:	H9EXH3 (Q31-G232)
Gene ID:	708110
Molecular Weight:	The protein has a predicted molecular mass of approximately 22.8 kDa. The protein migrates as an approximately 40-49 kDa band under reducing SDS-PAGE due to glycosylation.

PROPERTIES

AA Sequence	<p> QVQVVTQDER EQLYTPASLR CSLQNAQEV L IVTWQKKKAV SPENMVT FSE NHGVVIQPAY KDKINITQLG LQNTTITFWN ITLEDEGCYM CLFN TFGSGK ISGTACLTVY VQPIVSLHYK YSEDLNITC SATARPAPMI FWKVPRSGFE NSTVTLSHPN GTTSVTSILH VKDPKNQVGK EVICQVLHLG TVTDFKQTFD KG </p>
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Human CD200 R1 is immobilized at 2 µg/mL (100 µL/well) can bind Rhesus Macaque CD200. The ED ₅₀ for this effect is 0.8551ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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

Background

The CD200 protein plays a pivotal role in immune modulation, functioning as a costimulatory molecule that promotes T-cell proliferation. Additionally, CD200 is implicated in the potential regulation of myeloid cell activity across various tissues, as suggested by similarity-based inferences. The interaction between CD200 and its receptor, CD200R1, is facilitated through their respective N-terminal Ig-like domains. This interaction likely contributes to the regulatory processes involved in immune responses and myeloid cell function. The engagement of CD200 with CD200R1 underscores its significance in mediating immune cell communication and homeostasis, emphasizing its potential as a key player in immunomodulation.

Caution: Product has not been fully validated for medical applications. For research use only.

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