

Active Recombinant Mouse Cd200r4 protein, His-tagged

Cat. No. Cd200r4-250H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Cd200r4(Thr26-Thr241) fused with His tag at C-terminal was expressed in NS0.

Species Mouse

Source Mammalian Cells

ProteinLength 26-241 a.a.

Description CD200 R4, also known as CD200RLa, is a transmembrane protein in the immunoglobulin superfamily. Mature mouse CD200 R4 consists of a 216 amino acid (aa) extracellular domain (ECD), a 21 aa transmembrane segment, and an 8 aa cytoplasmic domain. The ECD contains one Ig-like V-type domain and one Ig-like C2-type domain. A positively charged lysine in the transmembrane likely mediates association with the signaling molecule DAP12. Within the ECD, mouse CD200 R4 shares 48% and 68% aa sequence identity with human and rat CD200 R4, respectively. CD200 R4 is expressed on monocytes, bone marrow derived macrophages and dendritic cells, NK cells, and resting mast cells. It is down-regulated following Fc epsilon RI-mediated mast cell activation. According to conflicting reports, CD200 R4 may or may not interact with CD200. R&D Systems in-house testing indicates that this recombinant mouse CD200 R4 binds to recombinant mouse CD200-Fc.

Predicted N Terminal Thr26

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Form	Lyophilized from a 0.2 µm filtered solution in PBS.
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Mouse CD200 R4 is present at 0.5 µg/mL, Recombinant Mouse CD200 Fc Chimera binds with a typical ED50 of 0.8-4 µg/mL.
Molecular Mass	Predicted Molecular Mass: 24 kDa SDS-PAGE: 49-74 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 500 µg/mL in PBS.

GENE INFORMATION

Gene Name	Cd200r4 CD200 receptor 4 [Mus musculus]
Official Symbol	Cd200r4
Synonyms	Cd200r4; CD200 receptor 4; MCD200RLa; F630107N04Rik; CD200 cell surface glycoprotein receptor; CD200 cell surface glycoprotein receptor-like 4; CD200 cell surface glycoprotein receptor-like a; CD200 receptor-like 4; CD200RLa; cell surface glycoprotein OX2 receptor 4

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Gene ID	239849
mRNA Refseq	NM_207244
Protein Refseq	NP_997127
UniProt ID	Q6XJV4

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