

Active Recombinant Mouse Fc receptor-like B, His-tagged

Cat. No. Fcrlb-509M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fcrlb protein was expressed in Murine myeloma cellline. Ala18-Ser427, with a C-terminal 6-His tag.
Species	Mouse
Source	Mammalian Cells
Protein Length	18-427 a.a.
Description	Fcrlb is a 60kDa protein with sequence homology to classical Fc receptors. There are at least six type 1 transmembrane FCRL proteins and two that lack transmembrane segments. Each family member contains between three and nine immunoglobulin-like domains. FCRL proteins are differentially expressed within the B cell lineage and can either promote or inhibit B cell proliferation and activation. According to R&D Systems testing, Fcrlb binds to purified mouse IgG. Mouse Fcrlb shares 82% and 94% aa sequence identity with human and rat Fcrlb, respectively. It contains a putative signal peptide, three immunoglobulin-like domains, and a mucin-like stalk that is rich in Pro, Ser, and Thr residues.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Ala18
Molecular Weight	46.5 kDa (monomer)

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Activity	Measured by its ability to bind mouse IgG with an estimated KD < 300 nM.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	60-70 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in PBS.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Fcrlb Fc receptor-like B [Mus musculus]
Official Symbol	Fcrlb
Synonyms	Fcrlb; Fcreceptor-like B; Fcγ; FREB2; FcRL2; FREB-2; Fcrlm2; mFCRL2; Fcreceptor-like B; Fc receptor related Y; fc receptor-like protein 2; Fcreceptor-like mucin-like 2; fc receptor-related protein Y; fc receptor-like and mucin-like protein 2; fc receptor homolog expressed in B cells protein 2
Gene ID	435653
mRNA Refseq	NM_001029984
Protein Refseq	NP_001025155

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UniProt ID	Q5DRQ8
Chromosome Location	1
Function	molecular_function

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