

## Active Recombinant Mouse cDNA sequence AF251705, Fc-tagged

**Cat. No.** AF251705-534M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse AF251705 protein was expressed in Chinese Hamster Ovary cell line with the Fc part of Mouse LMIR2 Cys22-Ser193 (N-terminus) and Mouse IgG2A Glu98-Lys330 (C-terminus).
<b>Species</b>	Mouse
<b>Source</b>	CHO
<b>Protein Length</b>	22-193;98-330 a.a.
<b>Description</b>	AF251705, also known as CMRF35A, CD300c, CLM4, DlgR1, and MAIRII, is a 35 kDa type I transmembrane glycoprotein that belongs to the immunoregulatory signaling (IRS) family of immunoglobulin-like molecules. Mature mouse AF251705 consists of a 165 amino acid (aa) extracellular domain (ECD) with one Ig-like domain, a 21 aa transmembrane segment, and a 20 aa cytoplasmic tail. An alternate splice form lacks two amino acids C-terminal to the Ig-like domain. Within the ECD, mouse AF251705 shares 45% aa sequence identity with human AF251705.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>N-terminal Sequence</b>	Cys22
<b>Molecular Weight</b>	46 kDa (monomer)

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<b>Activity</b>	Measured by its ability to inhibit anti-CD3-induced proliferation of stimulated human T cells. Human T lymphocytes cultured for 72 hours with PHA were incubated for an additional 3 days in 96 well plates coated with 500 ng/mL antiCD3 and serially diluted rmLMIR-2/Fc. The ED50 for this effect is typically 0.6-3 µg/mL.
<b>Endotoxin Level</b>	< 1.0 EU per 1 µg of the protein by the LAL method.
<b>SDS-PAGE</b>	55-65 kDa, reducing conditions.
<b>Purity</b>	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	100 µg/mL in PBS.
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">AF251705 cDNA sequence</a> <a href="#">AF251705 [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">AF251705</a>
<b>Synonyms</b>	AF251705; cDNA sequence AF251705; CLM4; DlgR1; Igsf7; Lmir2; Cd300c; Cd300d; MAIR-II; CMRF35-like molecule; CLM; MAIR-2; Cd300C antigen; Cd300D antigen; leukocyte mono-Ig-like receptor 2; immunoglobulin superfamily member 7; immunoglobulin superfamily, member 7; dendritic cell-derived Ig-like receptor 1; dendritic cell-derived immunoglobulin receptor 1; myeloid-associated immunoglobulin-like receptor 2; myeloid-associated immunoglobulin-like receptor II

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<b>Gene ID</b>	140497
<b>mRNA Refseq</b>	NM_134158
<b>Protein Refseq</b>	NP_598919
<b>Chromosome Location</b>	11 E2; 11 78.0 cM
<b>Function</b>	protein binding;receptor activity

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