

Active Recombinant Mouse cDNA sequence AF251705, Fc-tagged

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

SPECIFICATION

Product Overview	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).
Species	Mouse
Source	CHO
Protein Length	22-193;98-330 a.a.
Description	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.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Cys22
Molecular Weight	46 kDa (monomer)

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

Activity	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.
Endotoxin Level	< 1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	55-65 kDa, reducing conditions.
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	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	AF251705 cDNA sequence AF251705 [Mus musculus]
Official Symbol	AF251705
Synonyms	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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA