Recombinant Mouse Alcam, Fc-tagged

Cat. No. Alcam-1703M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of mouse ALCAM (amino acid residues 28-527) with a hCD33 signal peptide was fused to the Fc region of human IgG1 via a polypeptide linker, inserted into a suitable mammalian expression vector and expressed in*NSO cells.*
Species	Mouse
Source	Mammalian Cells
ProteinLength	28-527 a.a.
Description	This protein is a member of the immunoglobulin gene superfamily expressed by leukocytes after cell activation and thymic epithelial cells. In the nomenclature of CD antigens this protein has been given the designation CD166. ALCAM is a ligand for the lymphocyte antigen CD6 but also engages in homophilic interactions. Mouse ALCAM shows an overall identity of 93 % with the human protein. ALCAM has been identified independently as MEMD. mRNA transcripts encoding murine ALCAM are expressed in the brain, lung, liver, and the kidney, as well as by activated leukocytes and a number of cell lines. A rat monoclonal antibody specific for murine ALCAM binds to both activated CD4(+) and CD8(+) T-cells. The antigen is expressed on natural killer cells, thymocytes, platelets, B-cells and T-cells after cell activation, eosinophils, fibroblasts, endothelial cells, keratinocytes, monocytes after cell activation, neurons. The ligand for CD166 is CD6.

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Molecular Weight	The predicted molecular weight of Recombinant Mouse ALCAM is Mr 82 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 114-122 kDa.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.
Formulation	This recombinant protein was 0.2 μm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2-7.3 with no calcium, magnesium, or preservatives.
Endotoxin	<1.0 EU/μg as determined by the LAL method.
Biological Activity	The biological activity of Mouse ALCAM was determined by its ability to block adhesion of HUT-78, a human cutaneous T cell lymphoma, to immobilized rhCD6/Fc protein. rmALCAM/Fc at 10 μg/mL (50 μL/well) blocked 100% of HUT-78 cell adhesion (1 x 106 cells/mL, 50 μL/well) to immobilized rhCD6/Fc (10 μg/mL, 100 μL/well).
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20℃ to -70℃. After aseptic reconstitution, this protein may be stored at 2℃ to 8℃ for one month or at -20℃ to -70℃ in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	Alcam activated leukocyte cell adhesion molecule [Mus musculus]

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Synonyms	Alcam; activated leukocyte cell adhesion molecule; BEN; SC1; MuSC; CD166; AI853494; DM-GRASP; MGC27910
Gene ID	11658
mRNA Refseq	NM_009655
Protein Refseq	NP_033785
UniProt ID	Q61490
Chromosome Location	16 B5
Pathway	Cell adhesion molecules (CAMs)
Function	protein binding

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