

Active Recombinant Mouse Intercellular Adhesion Molecule 1, Fc-tagged

Cat. No. Icam1-5640M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Icam1 protein was expressed in Murine myeloma cell line with the Fc part of Human IgG1 Pro100-Lys330 (C-terminus) and Mouse Icam1 Gln28-Asn485(N-terminus).
Species	Mouse
Source	Mammalian Cells
Protein Length	28-485 a.a.
Description	Icam1 binds the leukocyte integrins LFA-1 and Mac-1. Icam1 expression is weak on leukocytes, epithelial and resting endothelial cells, as well as some other cell types, but expression can be stimulated by IFN- γ , TNF- α , IL-1 β and LPS. Mouse and human Icam1 share approximately 54% amino acid identity.
Form	Lyophilized from a 0.2 μ m filtered solution in PBS.
N-terminal Sequence	Gln28
Molecular Weight	76.8 kDa (monomer)
Activity	Measured by the ability of the immobilized protein to support the adhesion of PMA-stimulated HSB2 human peripheral blood acute lymphoblastic leukemia cells. When 5×10^4 cells/well are added to rmICAM/Fc Chimera coated plates (12.5 μ g/ml with 100

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	μL/well), approximately 65-95% will adhere after 1 hour incubation at 37°C.
Endotoxin Level	<1.0EU per 1μg of the protein by the LAL method.
SDS-PAGE	110-130kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	0.4 mg/mL in sterile 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	Icam1 intercellular adhesion molecule 1 [Mus musculus]
Official Symbol	Icam1
Synonyms	Icam1; intercellular adhesion molecule 1; CD54; Ly-47; Icam-1; MALA-2; myD10; Intercellular adhesion molecule
Gene ID	15894
mRNA Refseq	NM_010493
Protein Refseq	NP_034623
UniProt ID	Q3U8M7

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Chromosome Location	9
Pathway	Adaptive ImmuneSystem; African trypanosomiasis; Cell adhesion molecules (CAMs); HTLV-infection; IL-2 Signaling Pathway; IL-5 Signaling Pathway; Immune System; InfluenzaA; Integrin cell surface interactions; Leukocyte transendothelial migration; Malaria;Natural killer cell mediated cytotoxicity; PluriNetWork; Rheumatoid arthritis;Signal Transduction
Function	cell surface binding;integrin binding; protein complex binding
PDBRendering based on 1d3e.	