

Active Recombinant Mouse Adhesion Molecule, Interacts With CXADR Antigen 1

Cat. No. Amica1-447M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Amica1 protein was expressed in Murine myeloma cell line. Leu23-Leu281.
Species	Mouse
Source	Mammalian Cells
Protein Length	23-281 a.a.
Description	Amica1 is a 65kDa, type I transmembrane glycoprotein that belongs to the junctional adhesion molecule (JAM) subset of the immunoglobulin superfamily. JAM family proteins contribute to intercellular connections within epithelial and endothelial cell layers and mediate their interactions with various hemopoietic cells. The mouse Amica1 cDNA encodes a 379 amino acid (aa) precursor that includes a 20 aa signal sequence, a 261 aa extracellular domain (ECD) with two Ig-like domains, a 21 aa transmembrane segment, and a 77 aa cytoplasmic domain. In contrast to other JAM family proteins, AMICA does not contain a cytoplasmic PDZ binding motif.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Leu23
Molecular Weight	56.6 kDa (monomer)

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Activity	Measured by the ability of the immobilized protein to support the adhesion of human neutrophils. When 2×10^5 cells/well are added to rAmiCA-coated plates ($10 \mu\text{g/mL}$, $100 \mu\text{L/well}$), 30-50% of the cells will adhere after 20 minutes at 37°C .
Endotoxin Level	$<1.0\text{EU}$ per $1 \mu\text{g}$ of the protein by the LAL method.
Purity	$>95\%$, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at $100 \mu\text{g/mL}$ 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	Amica1 adhesion molecule, interacts with CXADR antigen 1 [Mus musculus]
Official Symbol	Amica1
Synonyms	Amica1; adhesion molecule, interacts with CXADR antigen 1; AMICA; Crea7; Gm638; junctional adhesion molecule-like; mCrea7; adhesion molecule AMICA; dendritic cell-specific protein CREA7; dendritic-cell specific protein Crea7
Gene ID	270152
mRNA Refseq	NM_001005421
Protein Refseq	NP_001005421
UniProt ID	Q80UL9

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Chromosome Location	9
Function	cell adhesionmolecule binding