

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 x 10 ⁵ cells/well are added to rAmiCA coated plates (10 µg/mL, 100 µL/well), 30-50% of the cells will adhere after 20 minutes at 37°C. |
| Endotoxin Level | <1.0 EU per 1 µg of the protein by the LAL method. |
| Purity | >95%, by SDS-PAGE under reducing conditions and visualized by silver stain. |
| Reconstitution | Reconstitute at 100 µg/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

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|------------------------|--|
| Gene Name | Amica1 adhesion molecule, interacts with CXADR antigen 1 [<i>Mus musculus</i>] |
| 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 |

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