JAM-C/CD323 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P73849
Synonyms:	CD323; JAM-2; JAM3; JAMC; Junctional adhesion molecule C
Species:	Mouse
Source:	HEK293
Accession:	Q9D8B7/NP_075766.1 (E30-N241)
Gene ID:	83964
Molecular Weight:	Approximately 27-34 kDa due to the glycosylation

PROPERTIES

AA Sequence	E A V N L K S S N R N P V V H E F E S V E L S C I I T D S Q T S D P R I E W K K I Q D G Q T T Y V Y F D N K I Q G D L A G R T D V F G K T S L R I W N V T R S D S A I Y R C E V V A L N D R K E V D E I T I E L I V Q V K P V T P V C R I P A A V P V G K T A T L Q C Q E S E G Y P R P H Y S W Y R N D V P L P T D S R A N P R F Q N S S F H V N S E T G T L V F N A V H K D D S G Q Y Y C I A S N D A G A A R C E G Q D M E V Y D L N
Biological Activity	Measured by its ability to inhibit the adhesion of Jurkat cells on immobilized Human JAM-2. The ED_{50} for this effect is 0.3033 μg/mL in the presence of 0.2 μg/mL Human JAM-2, corresponding to a specific activity is 3.297×10^3 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	JAM-C/CD323 protein serves as a junctional adhesion molecule, engaging in heterotypic cell-cell interactions with its receptor JAM2 to modulate diverse cellular processes. It plays a pivotal role in the homing and mobilization of hematopoietic stem and progenitor cells within the bone marrow, contributing to their retention on the surface of bone

marrow stromal cells. Additionally, JAM-C is central to leukocyte extravasation, facilitating transmigration through the endothelium. In spermatogenesis, it forms interactions between Sertoli and germ cells, crucial for anchoring germ cells onto Sertoli cells and establishing cell polarity during spermatid differentiation. Acting as a counter-receptor for ITGAM, JAM-C mediates leukocyte-platelet interactions and regulates the transepithelial migration of polymorphonuclear neutrophils. Furthermore, it plays roles in angiogenesis, cell migration regulation, myocyte fusion during myogenesis, and promotes chemotaxis of vascular endothelial cells, thereby stimulating angiogenesis. The multifaceted functions of JAM-C underscore its significance in various cellular and physiological processes.

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