JAM-B/CD322 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P73260
Synonyms:	C21orf43; CD322; JAM2; JAM-B; junctional adhesion molecule B; PRO245
Species:	Mouse
Source:	HEK293
Accession:	Q9JI59 (F29-N236)
Gene ID:	67374
Molecular Weight:	Approximately 37 kDa

PROPERTIES

AA Sequence	F S A S K D H R Q E V T V I E F Q E A I L A C K T P K K T T S S R L E W K K V G Q G V S L V Y Y Q Q A L Q G D F K D R A E M I D F N I R I K N V T R S D A G E Y R C E V S A P T E Q G Q N L Q E D K V M L E V L V A P A V P A C E V P T S V M T G S V V E L R C Q D K E G N P A P E Y I W F K D G T S L L G N P K G G T H N N S S Y T M N T K S G I L Q F N M I S K M D S G E Y Y C E A R N S V G H R R C P G K R M Q V D V L N
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of Jurkat human leukemic T cells. When 8×10^4 cells/well are added to CD322-coated plates (0.2 μg/mL and 100 μL/well), approximately 40.45% will adhere specifically after 60 minutes at 37℃.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, 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.
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-B/CD322 protein functions as a junctional adhesion molecule, orchestrating heterotypic cell-cell interactions with its receptor JAM3 to regulate diverse cellular processes. It plays a crucial 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. In the context of leukocyte extravasation, JAM-B is central not only to transmigration but also to tethering and rolling of leukocytes along the endothelium, processes dependent on its binding to the integrin alpha-4/beta-1. Furthermore, JAM-B is involved in spermatogenesis, mediating interactions between Sertoli and germ cells and contributing to the anchorage of germ cells onto Sertoli cells, as well as the assembly of cell polarity complexes during spermatid differentiation. Acting as an inhibitory somatodendritic cue, it prevents the myelination of non-axonal parts of neurons. Additionally, JAM-B participates in myocyte fusion during myogenesis and may play a role in angiogenesis. The multifaceted functions of JAM-B underscore its importance in various cellular and physiological processes.

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