

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

Cat. No.:	HY-P73261
Synonyms:	C21orf43; CD322; JAM2; JAM-B; junctional adhesion molecule B; PRO245
Species:	Rat
Source:	HEK293
Accession:	Q3MHC0 (F29-N236)
Gene ID:	619374
Molecular Weight:	Approximately 30-35 kDa due to the glycosylation.

PROPERTIES

AA Sequence	<pre> F S A S K D H R Q E V S V I E Y Q E A I L A C K T P K K T T S S R L E W K K L 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 H D A G E Y R C E V S A P T E Q G Q N L Q E D T V M L E V L V A P A V P S C E V P T S V M S G S V V E L R C Q E 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 A H R N S S Y T M N T K S G T 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 </pre>
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 (5 $\mu\text{g}/\text{mL}$ and 100 $\mu\text{L}/\text{well}$), approximately 43.87% will adhere specifically after 60 minutes at 37°C.
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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH ₂ O. 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	Junctional adhesion molecule 2 (Jam2, Jam-B, CD322) is a member of the immunoglobulin superfamily, and the junctional adhesion molecule (JAM) family. Jam2 is a type I membrane protein that is localized at the tight junctions of both epithelial
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and endothelial cells. Jam2 acts as an adhesive ligand for interacting with a variety of immune cell types, and may play a role in lymphocyte homing to secondary lymphoid organs. Jam2 also has integrin alpha-4/beta-1 binding activity and plays an important role in numerous cellular processes, such as tight junction assembly, spermatogenesis, regulation of paracellular permeability, leukocytic transmigration, angiogenesis, tumor metastasis and cell proliferation. Additionally, Jam2 functions as an inhibitory somatodendritic cue, preventing the myelination of non-axonal parts of neurons, contributes to myocyte fusion during myogenesis ^{[1][2][3]}.

Caution: Product has not been fully validated for medical applications. For research use only.

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