

## JAM-C/CD323 Protein, Human (HEK293)

Cat. No.:	HY-P73851
Synonyms:	CD323; JAM-2; JAM3; JAMC; Junctional adhesion molecule C
Species:	Human
Source:	HEK293
Accession:	Q9BX67 (V32-N241)
Gene ID:	83700
Molecular Weight:	Approximately 33 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
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, a junctional adhesion protein, orchestrates heterotypic cell-cell interactions with its receptor JAM2, exerting regulatory control over diverse cellular processes. Notably, 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. This function involves the interaction with JAM3-expressing hematopoietic cells. In the context of leukocyte extravasation, JAM-C facilitates transmigration through the endothelium, underscoring its central role in this physiological process. Furthermore, in spermatogenesis, JAM-C engages with both Sertoli and germ cells, essential for anchoring germ cells onto Sertoli cells and assembling cell polarity complexes during spermatid differentiation. Acting as a counter-receptor for ITGAM, JAM-C mediates leukocyte-platelet interactions and regulates the transepithelial migration of polymorphonuclear neutrophils. Additionally, JAM-C is implicated in angiogenesis, cell migration regulation, and myocyte fusion during myogenesis, promoting chemotaxis of vascular endothelial cells and stimulating angiogenesis.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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