

ICAM-1/CD54 Protein, Rhesus Macaque (HEK293, His)

Cat. No.:	HY-P74873
Synonyms:	Intercellular Adhesion Molecule 1; ICAM-1; CD54
Species:	Rhesus Macaque
Source:	HEK293
Accession:	Q5NKV6 (Q28-E480)
Gene ID:	712280
Molecular Weight:	70-115 kDa

PROPERTIES

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 µg/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	ICAM-1/CD54 Protein, as a ligand for the leukocyte adhesion protein LFA-1 (integrin alpha-L/beta-2), plays a crucial role in leukocyte trans-endothelial migration. Engagement of ICAM-1 during this process promotes the assembly of endothelial apical cups through the activation of ARHGEF26/SGEF and RHOG, revealing its involvement in orchestrating dynamic cellular events (By similarity). ICAM-1 also forms homodimers and interacts with MUC1, fostering cell aggregation in epithelial cells. Furthermore, its interaction with ARHGEF26/SGEF underscores its participation in signaling pathways that regulate cellular dynamics. On the T cell side, ICAM-1 interacts with CD81, CD247, and CD9 at immunological synapses between antigen-presenting cells and T cells, emphasizing its pivotal role in immune cell interactions during the formation of immunological synapses. The multifaceted interactions of ICAM-1 highlight its significance in mediating diverse cellular processes and facilitating cell-cell communication.
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Caution: Product has not been fully validated for medical applications. For research use only.

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