

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

<b>Cat. No.:</b>	HY-P72622
<b>Synonyms:</b>	Intercellular Adhesion Molecule 1; ICAM-1; Major Group Rhinovirus Receptor; CD54; ICAM1
<b>Species:</b>	Rhesus Macaque
<b>Source:</b>	HEK293
<b>Accession:</b>	Q5NKV6 (Q28-E480)
<b>Gene ID:</b>	712280
<b>Molecular Weight:</b>	100-130 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> Q T S V F P P E V I   L P R G G S V K V N   C S A S C D Q P I S   L G M E T P L P K K E I L P G G N N W K   M Y E L S N V Q E D   S Q P M C Y S N C P   D G Q S S A K T L L T V Y W T P E R V E   L A P L P P W Q P V   G K N L T L R C Q V   E G G A P R A N L T V M L L R G E K E L   S R Q S A V G E P A   E V T T T V P V G R   D D H G A N F S C R T E L D L R P Y V L   K L F E N T S A P H   Q L Q T F D L P A T   P P Q L V S P Q V L E V D T Q G T V V C   S L D G L F P V S E   A Q V S L A L G D Q   K L N P T I T Y G N N S L S A K A S V K   V T A E E E G T Q Q   L L C G V M L G N Q   T Q E T R Q T V T I Y S F P A P N V N L   T K P E V S E G T E   V I V E C E A H P R   A K V M L N G V P A Q P P G P R A Q F L   L K A T P E D N G R   S F S C S A T L E V   A G Q L V H K N Q T R E L R V L Y G P R   L D E K D C P G N W   T W P E N S Q Q T P   M C Q A W G N P L P Q L K C L K D G T F   P L P I G Q S V T V   T R D L E G T Y L C   Q A R S T R G E V T R E V T V N V L S P   R Y E           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**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 RHO G, 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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