

## ICAM-1/CD54 Protein, Human (HEK293)

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|-------------------|---|
| Cat. No.:         | HY-P73911                                       |
| Synonyms:         | Intercellular Adhesion Molecule 1; ICAM-1; CD54 |
| Species:          | Human   |
| Source:           | HEK293  |
| Accession:        | P05362 (Q28-E480)                               |
| Gene ID:          | 3383  |
| Molecular Weight: | Approximately 71.3 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

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|------------|---|
| Background | ICAM-1/CD54 protein emerges as a crucial player in cellular interactions, functioning as a ligand for the leukocyte adhesion protein LFA-1 (integrin alpha-L/beta-2). Particularly notable is its role during leukocyte trans-endothelial migration, where engagement with ICAM-1 promotes the assembly of endothelial apical cups through the activation of ARHGEF26/SGEF and RHOG. In the context of microbial infection, ICAM-1 also acts as a receptor for major receptor group rhinovirus A-B capsid proteins, highlighting its versatile involvement in both immune responses and pathogen recognition. This dual functionality underscores the significance of ICAM-1 in mediating diverse cellular processes critical for immune regulation and host defense. |
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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