

## EpCAM/TROP1 Protein, Cynomolgus/Rhesus Macaque (HEK293)

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| Cat. No.:         | HY-P75736   |
| Synonyms:         | Epithelial cell adhesion molecule; Ep-CAM; EGP; KSA; CD326; TROP2 |
| Species:          | Rhesus Macaque  |
| Source:           | HEK293  |
| Accession:        | Q1WER1 (M1-K265)  |
| Gene ID:          | 677680  |
| Molecular Weight: | 35-45 kDa   |

### PROPERTIES

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| Biological Activity | Immobilized Rhesus macaque/Cynomolgus EpCAM, No Tag at 2 µg/mL (100µl/well) on the plate. Dose response curve for Anti-EpCAM Antibody, hFc Tag with the EC <sub>50</sub> of 71.8 ng/mL determined by ELISA. |
| Appearance          | Lyophilized powder  |
| Formulation         | Lyophilized from a 0.2 µm filtered solution of PBS (pH 7.4). Normally 5% trehalose is added as protectant 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 | EpCAM/TROP1 protein functions as a crucial player in multiple biological processes. It serves as a physical homophilic interaction molecule, facilitating communication between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) within the mucosal epithelium, thereby establishing an immunological barrier as the initial defense against mucosal infections. EpCAM/TROP1 also plays a crucial role in regulating the proliferation and differentiation of embryonic stem cells. Additionally, it is involved in the up-regulation of FABP5, MYC, and cyclins A and E, potentially influencing cell cycle progression. EpCAM/TROP1 exists as a monomer and interacts with phosphorylated CLDN7, further highlighting its diverse functional repertoire. |
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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