EpCAM/TROP1 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P72367
Synonyms:	Epithelial Cell Adhesion Molecule; Cell Surface Glycoprotein Trop-1; EGP; EGP314; hEGP314; KSA; CD326
Species:	Human
Source:	HEK293
Accession:	AAH14785.1 (Q24-K265)
Gene ID:	4072
Molecular Weight:	35-50 kDa

PROPERTIES

AA Sequence	Q E E C V C E N Y K L A V N C F V N N N R Q C Q C T S V G A Q N T V I C S K L A A K C L V M K A E M N G S K L G R R A K P E G A L Q N N D G L Y D P D C D E S G L F K A K Q C N G T S M C W C V N T A G V R R T D K D T E I T C S E R V R T Y W I I I E L K H K A R E K P Y D S K S L R T A L Q K E I T T R Y Q L D P K F I T S I L Y E N N V I T I D L V Q N S S Q K T Q N D V D I A D V A Y Y F E K D V K G E S L F H S K K M D L T V N G E Q L D L D P G Q T L I Y Y V D E K A P E F S M Q G L K
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	The EpCAM/TROP1 Protein emerges as a pivotal entity, potentially functioning as a physical homophilic interaction molecule that fosters direct contact between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium, thereby contributing to the establishment of an immunological barrier as the primary defense against mucosal infections. Beyond its role in mucosal immunity, this protein plays a significant part in the proliferation and differentiation of embryonic stem cells. It further exhibits regulatory influence by up-regulating the expression of FABP5,

MYC, and cyclins A and E, implicating EpCAM/TROP1 in the modulation of key cellular processes. Its monomeric nature and interaction with phosphorylated CLDN7 underscore the intricate molecular interactions involved, providing insights into the diverse functions of this protein in cellular physiology.

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