EpCAM/TROP1 Protein, Human (His-SUMO)

Cat. No.:	HY-P72183
Synonyms:	17 1A; 323/A3; Adenocarcinoma associated antigen; Adenocarcinoma-associated antigen; Antigen identified by monoclonal AUA1; AUA1; CD326; CD326 antigen; Cell surface glycoprotein Trop 1; Cell surface glycoprotein Trop 2; Cell surface glycoprotein Trop-1; CO 17A; CO17 1A; CO17A; DIAR5; EGP 2; EGP; EGP2; EGP314; EGP40; Ep CAM; Ep-CAM; EPCAM; EPCAM_HUMAN; EpCAM1; Epithelial cell adhesion molecule; Epithelial Cell Adhesion Molecule Intracellular Domain EpCAM-ICD; ; Epithelial cell surface antigen; Epithelial cellular adhesion molecule; Epithelial glycoprotein 1; Epithelial glycoprotein 314; Epithelial glycoprotein; ESA; GA733 1; GA733 2; GA733-2; gastrointestinal tumor-associated antigen 2; 35-KD glycoprotein; gp4; hEGP 2; hEGP314; HNPCC8; Human epithelial glycoprotein 2; KS 1/4 antigen; KS1/4; KSA; Ly74; Lymphocyte antigen 74; M1S 1; M1S2; M4S1; Major gastrointestinal tumor associated protein GA733 2; Major gastrointestinal tumor-associated protein GA733-2; mEGP314; Membrane component chro
Species:	Human
Source:	E. coli
Accession:	P16422 (Q24-K265)
Gene ID:	4072
Molecular Weight:	Approximately 40.4 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 solution of Tris-based buffer, 50% Glycerol.
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.
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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