

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

Cat. No.:	HY-P77532
Synonyms:	Epithelial cell adhesion molecule; Ep-CAM; EGP; KSA; CD326; TROP1
Species:	Human
Source:	HEK293
Accession:	NP_002345.1 (Q24-K265)
Gene ID:	4072
Molecular Weight:	Approximately 29 kDa.

PROPERTIES

AA Sequence	<p>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</p> <p>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</p> <p>L F K A K Q C N G T S T 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</p> <p>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</p> <p>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</p> <p>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</p> <p>L K</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4. 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 ₂ 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

Background	The EpCAM/TROP1 Protein, belonging to a family that includes at least two type I membrane proteins, encodes a carcinoma-associated antigen expressed on most normal epithelial cells and gastrointestinal carcinomas. Functioning as a homotypic calcium-independent cell adhesion molecule, this antigen holds significance as a target for immunotherapy in the treatment of human carcinomas. Mutations in this gene are associated with congenital tufting enteropathy. The gene exhibits biased expression, with markedly elevated levels in the colon (RPKM 501.8), small intestine (RPKM 391.0), and nine
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other tissues, suggesting its specific involvement in various physiological contexts across multiple organs.

Caution: Product has not been fully validated for medical applications. For research use only.

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