
Product Data Sheet

Product Name: EPCAM Human, sf9
 Cat. No.: GP23405
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms
 Epithelial Cell Adhesion Molecule ; Tumor-Associated Calcium Signal Transducer 1; Major Gastrointestinal Tumor-Associated Protein GA733-2; Adenocarcinoma-Associated Antigen; Cell Surface Glycoprotein Trop-1; Epithelial Glycoprotein 314; TACSTD1; EGP314; MIC18; TROP1; M4S1; KSA; Membrane Component; Chromosome 4; Surface Marker (35kD Glycoprotein); Antigen Identified By Monoclonal Antibody AUA1; Human Epithelial Glycoprotein-2; Epithelial Cell Surface Antigen; Epithelial Glycoprotein; KS 1/4 Antigen; CD326 Antigen; GA733-2; HEGP314; HNPCC8; Ep-CAM; DIAR5; EGP-2; EGP40; KS1/4; MK-1; M1S2; ESA; EGP; EPCAM.

Amino Acid Sequence
 QEEVCENYK LAVNCFVNNN RQCQCTSVGA QNTVICKLA AKCLVMKAEM
 NGSKLGRRRAK PEGALQNNDG LYDPDCDESG LFKAKQCNGT STCWCVNTAG
 VRRTDKDTEI TCSERVRTYW IIIELKHKAR EKPYDSKSLR TALQKEITTR
 YQLDPKFITS ILYENNVITI DLVQNSSQKT QNDVDIADVA YFEKDVKGE
 SLFHSSKMDL TVNGEQLDLD PGQTLIYYVD EKAPEFSMQG LKHHHHHH

Formulation
 EPCAM protein solution (1mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol.

Introduction

EPCAM is a carcinoma-associated antigen and belongs to a family which includes at least 2 type I membrane proteins. The EPCAM protein has a role in embryonic stem cells proliferation and differentiation. EPCAM is used as a target for immunotherapy treatment of human carcinomas. EPCAM is expressed on most normal epithelial cells and gastrointestinal carcinomas and acts as a homotypic calcium-independent cell adhesion molecule. Epithelial cell adhesion molecules (EPCAM) can act as a physical homophilic

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

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interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium for supplying immunological barrier as a first line of defense against mucosal infection. EPCAM gene mutations result in congenital tufting enteropathy.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

EPCAM produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain (24-265 a.a.) and fused to a 6 aa His Tag at C-terminus containing a total of 248 amino acids and having a molecular mass of 28.2kDa. EPCAM shows multiple bands between 28-40kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.

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