

EpCAM/TROP1 Protein, Human, Recombinant (His), PE-Labeled

General Information

Synonyms:	ESA;Ber-Ep4;MH99;EGP314;TACST-1;LYNCH8;Ly74;EGP40;EPCAM;EGP-2;HNPCC8;323/A3;KS1/4;MOC31;M1S2;TROP1;TACSTD1;CD326;MIC18;DIAR5;GA733-2;MK-1;M4S1;CO-17A;MOC-31;EGP34;BerEp4;HEA125;17-1A;Ep-CAM;KSA
Protein Construction:	A DNA sequence encoding the Human EpCAM (NP_002345.1) (Met1-Lys265) was expressed with a polyhistidine tag at the C-terminus. The protein is site-specifically labeled with PE (Excitation = 495-566 nm, Emission Max. = 575 nm).
Species:	Human
Expression Host:	HEK293 Cells
Accession:	NP_002345.1
Molecular Weight:	30.9 kDa (predicted)

QC Testing

Biological Activity:	1. 293 cells were lentivirally transduced with anti-EpCAM CAR. Flow cytometric analysis was performed with EpCAM/TROP1 Protein, Human, Recombinant (His), PE-Labeled (Cat#TMPY-07029). Non-transduced 293 cells were used as a control. 2. PBMC cells were stained with anti-CD3 antibody and EpCAM/TROP1 Protein, Human, Recombinant (His), PE-Labeled (Cat#TMPY-07029) and detected by flow cytometry. PBMC cells stained with anti-CD3 antibody were used as a control.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	This product is Lyophilized from sterile PBS, 0.2% BSA, pH 7.4. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Reconstitution:

Please refer to the lot-specific COA.

Stability & Storage:

Twelve months from date of receipt at -20°C to -70°C in lyophilized form and 3 months at -70°C under sterile conditions after reconstitution. Protect from prolonged exposure to light and avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Epithelial Cell Adhesion Molecule (EpCAM), also known as GA733-2 antigen, is a type I transmembrane glycoprotein composed of an extracellular domain with two EGF-Like repeats and a cystenin-rich region, a

transmembrane domain and a cytoplasmic domain. It modulates cell adhesion and proliferation. Its overexpression has been detected in many epithelial tumours and has been associated with high stage, high grade and a worse survival in some tumour types. EpCAM has been shown to function as a calcium-independent homophilic cell adhesion molecule that does not exhibit any obvious relationship to the four known cell adhesion molecule superfamilies. However, recent insights have revealed that EpCAM participates in not only cell adhesion, but also in proliferation, migration and differentiation of cells. In addition, recent study revealed that EpCAM is the Wnt-beta-catenin signaling target gene and may be used to facilitate prognosis. It has oncogenic potential and is activated by release of its intracellular domain, which can signal into the cell nucleus by engagement of elements of the wnt pathway. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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