

Recombinant Human EPCAM protein, His-tagged, Site-Specific AF 488-Labeled

Cat. No. EPCAM-2939H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human EPCAM protein (NP_002345.1) (Met1-Lys265) was expressed with a polyhistidine tag at the C-terminus. The protein is site-specifically labeled with AF 488 (Excitation Max. = 495 nm, Emission Max. = 519 nm).

Species Human

Source HEK293

ProteinLength Met1-Lys265

Tag C-His

Form This product is Lyophilized from sterile PBS, pH 7.4.

Bio-activity

1.Flow cytometric analysis of anti-EpCAM CAR expression. 293 cells were lentivirally transduced with anti-EpCAM CAR. Flow cytometric analysis was performed with a negative control protein and AF 488-conjugated human EpCAM protein, respectively. Non-transduced 293 cells were used as a control.

2.Binding activity of PE-labeled EpCAM protein to PBMC cells. PBMC cells were stained with anti-CD3 antibody and AF 488-conjugated human EpCAM protein and detected by flow cytometry. PBMC cells stained with anti-CD3 antibody were used as a control.

Molecular Mass The recombinant Human EpCAM consists of AA Met1-Lys265 with a polyhistidine tag

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at the C-terminus. It has a predicted molecular mass of 30.9 kDa.

Endotoxin < 1.0 EU per µg protein as determined by the LAL method.

Purity ≥ 90 % as determined by SDS-PAGE.

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.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name [EPCAM epithelial cell adhesion molecule \[Homo sapiens \]](#)

Official Symbol [EPCAM](#)

Synonyms EPCAM; epithelial cell adhesion molecule; antigen identified by monoclonal AUA1 , M4S1, MIC18, TACSTD1, tumor associated calcium signal transducer 1; 17 1A; 323/A3; CD326; CO 17A; EGP 2; EGP34; EGP40; Ep CAM; ESA; GA733 2; HEA125; KS1/4; KSA; Ly74; MH99; MK 1; MOC31; TACST 1; TROP1; epithelial glycoprotein 314; human epithelial glycoprotein-2; cell surface glycoprotein Trop-1; adenocarcinoma-associated antigen; tumor-associated calcium signal transducer 1; major gastrointestinal tumor-associated protein GA733-2; membrane component, chromosome 4, surface marker (35kD glycoprotein); M4S1; MK-1; DIAR5; EGP-2; MIC18; EGP314; HNPCC8; TACSTD1; GA733-2;

Gene ID [4072](#)

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mRNA Refseq	NM_002354
Protein Refseq	NP_002345
MIM	185535
UniProt ID	P16422

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