

Active Recombinant Human EPCAM Protein, Fc-tagged, Alexa Fluor 488 conjugated

Cat. No. EPCAM-475HAF488 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Alexa Fluor 488 conjugated recombinant human EPCAM(Gln24 - Lys265) fused with Fc tag at C-terminal was expressed in NS0.
Species	Human
Source	Mammalian Cells
ProteinLength	Gln24-Lys265
Form	Lyophilized
Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of the L Cells mouse fibroblast cell line. When 5×10^4 cells/well are added to recombinant human EpCAM/Fc Chimera and human Fibronectin (0.5 $\mu\text{g}/\text{mL}$) coated plates, cell adhesion is enhanced in a dose dependent manner after 45 minutes at 37 centigrade. The ED50 for this effect is typically 0.7-2.8 $\mu\text{g}/\text{mL}$. Measured by its binding ability in a functional ELISA. The activity of this protein is measured in a homophilic binding assay.
Molecular Mass	Predicted Molecular Mass: 54 (monomer) kDa; SDS-PAGE: 60-70 kDa, reducing conditions
N-terminal Sequence Analysis	Gln 24

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Endotoxin	< 0.1 EU/ µg of the protein by the LAL method.
Purity	> 90 % by SDS-PAGE and analyzed by silver stain
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Concentration	100 µg/mL
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Conjugation	Alexa Fluor 488

GENE INFORMATION

Gene Name	EPCAM epithelial cell adhesion molecule [Homo sapiens]
Official Symbol	EPCAM

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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](#)

mRNA Refseq [NM_002354](#)

Protein Refseq [NP_002345](#)

MIM [185535](#)

UniProt ID [P16422](#)

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