

# Active Recombinant Human EPCAM Protein, Fc-tagged, Alexa Fluor 647 conjugated

Cat. No. EPCAM-475HAF647 Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Alexa Fluor 647 conjugated recombinant human EPCAM(Gln24 - Lys265) fused with Fc tag at C-terminal was expressed in NS0.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>ProteinLength</b>	Gln24-Lys265
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	Measured by the ability of the immobilized protein to support the adhesion of the L Cells mouse fibroblast cell line. When $5 \times 10^4$ 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.
<b>Molecular Mass</b>	Predicted Molecular Mass: 54 (monomer) kDa; SDS-PAGE: 60-70 kDa, reducing conditions
<b>N-terminal Sequence Analysis</b>	Gln 24

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<b>Endotoxin</b>	< 0.1 EU/ µg of the protein by the LAL method.
<b>Purity</b>	> 90 % by SDS-PAGE and analyzed by silver stain
<b>Characteristic</b>	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
<b>Storage</b>	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.
<b>Concentration</b>	100 µg/mL
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>Reconstitution</b>	Reconstitute at 100 µg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Conjugation</b>	Alexa Fluor 647

## GENE INFORMATION

<b>Gene Name</b>	EPCAM epithelial cell adhesion molecule [ Homo sapiens ]
<b>Official Symbol</b>	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](#)

**mRNA Refseq** [NM\\_002354](#)

**Protein Refseq** [NP\\_002345](#)

**MIM** [185535](#)

**UniProt ID** [P16422](#)

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