

Recombinant Mouse Epcam Protein, His-tagged, Alexa Fluor 647 conjugated

Cat. No. Epcam-283MAF647 Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Alexa Fluor 647 conjugated recombinant Mouse Epcam (Gln24-Thr266) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293). |
| Species | Mouse |
| Source | HEK293 |
| ProteinLength | Gln24-Thr266 |
| Description | <p>EpCAM is also known as CO171A, EGP, EGP40,GA7332, KSA, M4S, MIC18, MK1, TROP1, hEGP2, and is a pan-epithelial differentiation antigen that is expressed on almost all carcinomas as 17-1A(mAb) antigen. Its constitutional function is being elucidated. It is intricately linked with the Cadherin-Catenin pathway and hence the fundamental WNT pathway responsible for intracellular signaling and polarity. The epithelial cell adhesion molecule (Ep-CAM) is known to express in most epithelial malignancies and was reported as a tumor marker or a candidate of molecular targeting therapy.</p> <p>Ep-CAM cross signaling with N-cadherin involves Pi3K, resulting in the abrogation of the cadherin adhesion complexes in epithelial cells was reported. And Epithelial cell adhesion molecule (Ep-CAM) recently received increased attention as a prognostic factor in breast cancer.</p> |
| Form | Lyophilized |

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| Molecular Mass | The protein has a calculated MW of 28.5 kDa. The protein migrates as 33-38 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| N-terminal Sequence Analysis | Gln 24 |
| Endotoxin | < 1.0 EU/ µg by the LAL method. |
| Purity | > 98 % as determined by SDS-PAGE |
| Characteristic | Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm |
| Storage | For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. |
| Storage Buffer | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose. |
| Reconstitution | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents. |
| Conjugation | Alexa Fluor 647 |

GENE INFORMATION

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|------------------------|---|
| Gene Name | Epcam |
| Official Symbol | Epcam |
| Synonyms | EPCAM; epithelial cell adhesion molecule; mEGP314; protein 289A; Trop-1 protein; lymphocyte antigen 74; epithelial glycoprotein 314; panepithelial glycoprotein 314; tumor-associated calcium signal transducer 1; EGP; Ly74; gp40; CD326; EGP-2; TROP1; Egp314; Ep-CAM; Tacsd1; GA733-2; Tacstd1 |
| Gene ID | 17075 |
| mRNA Refseq | NM_008532 |
| Protein Refseq | NP_032558 |
| UniProt ID | Q99JW5 |

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