

Recombinant Monkey EPCAM Protein, His-tagged, Alexa Fluor 555 conjugated

Cat. No. EPCAM-202CAF555 Lot. No. (See product label)

SPECIFICATION

Product Overview

Alexa Fluor 555 conjugated recombinant Rhesus macaque EPCAM (Gln24-Lys265) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).

Species

Monkey

Source

HEK293

ProteinLength

Gln24-Lys265

Description

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.

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.

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Form	Lyophilized
Molecular Mass	The protein has a calculated MW of 28.2 kDa. The protein migrates as 28-40 kDa under reducing (R) condition (SDS-PAGE) due to different glycosylation.
N-terminal Sequence Analysis	Gln 24
Endotoxin	< 1.0 EU/ µg by the LAL method.
Purity	> 95 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 555 via amines With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters.
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.

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Conjugation	Alexa Fluor 555
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GENE INFORMATION

Gene Name	EPCAM
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Official Symbol	EPCAM
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Synonyms	Ep-CAM; TACSTD1
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Gene ID	677680
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mRNA Refseq	NM_001040029
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Protein Refseq	NP_001035118
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UniProt ID	Q1WER1
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