



Datasheet for ABIN2444113

EpCAM Protein (AA 24-265) (His tag,Biotin)



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1 Image

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Overview

Quantity:	200 µg
Target:	EpCAM (EPCAM)
Protein Characteristics:	AA 24-265
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EpCAM protein is labelled with His tag,Biotin.

Product Details

Brand:	MABSol@,UltraLys
Sequence:	AA 24-265
Specificity:	The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with biotins using standard chemical labeling method. A standard biotin reagent (13.5 angstroms) is used in this product.
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 29 kDa. The protein migrates as 33-36 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
Purity:	>95 % as determined by reduced SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	EpCAM (EPCAM)
Alternative Name:	EpCAM (EPCAM Products)
Background:	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.
Molecular Weight:	28.2 kDa

Application Details

Comment:	<p>A chemically labeled biotinylated protein with ultra sensitivity.</p> <p>The product is produced using a chemical labeling approach. The primary amines in the side chains of lysine residues and the N-terminus of protein are conjugated with biotins.</p> <p>Chemical labeling usually results in multiple biotin attachment on a single protein molecule, which could potentially lead to higher detection sensitivity.</p>
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Restrictions:	For Research Use only
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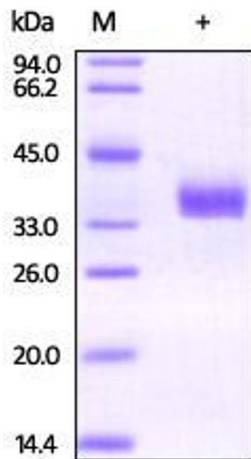
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	Lyophilized Protein should be stored at -20 °C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20 °C or -70 °C. Avoid repeated freeze-thaw cycles.

Publications

Product cited in: Grzeschik, Hinz, Könning, Pirzer, Becker, Zielonka, Kolmar: "A simplified procedure for antibody engineering by yeast surface display: Coupling display levels and target binding by ribosomal skipping." in: **Biotechnology journal**, Vol. 12, Issue 2, (2017) ([PubMed](#)).

Images



SDS-PAGE

Image 1. Biotinylated Human EpCAM on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.