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EpCAM Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP18115b

Specification

EpCAM Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P16422

EpCAM Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 4072

Other Names
Epithelial cell adhesion molecule, Ep-CAM, Adenocarcinoma-associated antigen, Cell surface glycoprotein Trop-1, Epithelial cell surface antigen, Epithelial glycoprotein, EGP, Epithelial glycoprotein 314, EGP314, hEGP314, KS 1/4 antigen, KSA, Major gastrointestinal tumor-associated protein GA733-2, Tumor-associated calcium signal transducer 1, CD326, EPCAM, GA733-2, M1S2, M4S1, MIC18, TACSTD1, TROP1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

EpCAM Antibody (C-term) Blocking Peptide - Protein Information

Name EPCAM

Synonyms GA733-2, M1S2, M4S1, MIC18, TACSTD1, TRO

Function
May act as a physical homophilic interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium for providing immunological barrier as a first line of defense against mucosal infection. Plays a role in embryonic stem cells proliferation and differentiation. Up-regulates the expression of FABP5, MYC and cyclins A and E.

Cellular Location
Lateral cell membrane; Single-pass type I membrane protein. Cell junction, tight junction. Note=Colocalizes with CLDN7 at the lateral cell membrane and tight junction

Tissue Location
Highly and selectively expressed by undifferentiated rather than differentiated embryonic stem cells (ESC) Levels rapidly diminish as soon as ESC's differentiate (at protein levels). Expressed in

almost all epithelial cell membranes but not on mesodermal or neural cell membranes. Found on the surface of adenocarcinoma.

EpCAM Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

EpCAM Antibody (C-term) Blocking Peptide - Images

EpCAM Antibody (C-term) Blocking Peptide - Background

This gene encodes a carcinoma-associated antigen and is amember of a family that includes at least two type I membraneproteins. This antigen is expressed on most normal epithelial cellsand gastrointestinal carcinomas and functions as a homotypiccalcium-independent cell adhesion molecule. The antigen is beingused as a target for immunotherapy treatment of human carcinomas.Mutations in this gene result in congenital tufting enteropathy.

EpCAM Antibody (C-term) Blocking Peptide - References

Kimura, O., et al. Cancer Sci. 101(10):2145-2155(2010)Jiang, L., et al. Breast Cancer Res. Treat. (2010) In press :Lugli, A., et al. Br. J. Cancer 103(3):382-390(2010)Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010) :Ren, G., et al. Zhonghua Zhong Liu Za Zhi 31(11):841-844(2009)