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EpCAM Antibody [Clone VU-1D9]

Purified Mouse Monoclonal Antibody
Catalog # AH10359

Specification

EpCAM Antibody [Clone VU-1D9] - Product Information

Application	**FC**
Primary Accession	P16422
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1, kappa**
Calculated MW	**40-43kDa KDa**

EpCAM Antibody [Clone VU-1D9] - 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

Target/Specificity
Small cell lung carcinoma cells

Application Note
FC~~1:10~50

Format
0.5 ml at 40ug/ml; conjugated to PE

Storage
Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions
EpCAM Antibody [Clone VU-1D9] is for research use only and not for use in diagnostic or therapeutic procedures.

EpCAM Antibody [Clone VU-1D9] - 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

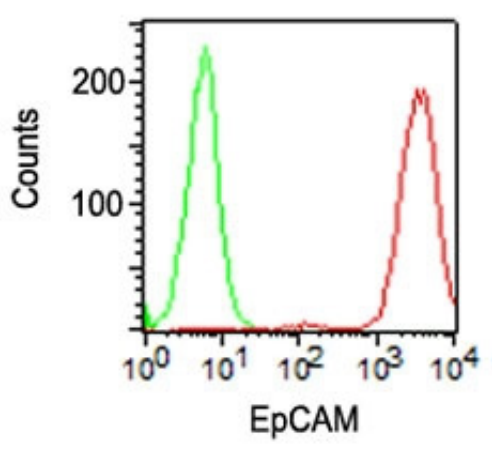
Tissue Location
Highly and selectively expressed by undifferentiated rather than differentiated embryonic stem cells (ESC) Levels rapidly diminish as soon as ESC's differentiate (at protein levels). Expressed in almost all epithelial cell membranes but not on mesodermal or neural cell membranes. Found on the surface of adenocarcinoma.

EpCAM Antibody [Clone VU-1D9] - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

EpCAM Antibody [Clone VU-1D9] - Images



Surface staining of HT29 cells using Ep-CAM Ab (VU-1D9) (red) and isotype control Ab (green).

EpCAM Antibody [Clone VU-1D9] - Background

EGP40 is a 40-43kDa transmembrane epithelial glycoprotein, also identified as epithelial specific antigen (ESA), or epithelial cellular adhesion molecule (Ep-CAM). It is expressed on baso-lateral cell surface in most simple epithelia and a vast majority of carcinomas. This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.

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EpCAM Antibody [Clone VU-1D9] - References

1. Litvinov SV et. al. J Cell Biol, 1994, 125:437-46.
2. Tsubura A et. al. J Cut Pathol, 1992, 19:73-9.