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#2929

EpCAM (VU1D9) Mouse mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IHC-P, IF-IC, FC-FP, FC-L	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Mouse IgG1	UniProt ID: #P16422	Entrez-Gene Id: 4072
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Product Usage Information

Application

Western Blotting
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)
Flow Cytometry (Live)

Dilution

1:1000
1:250 - 1:1000
1:1600
1:400 - 1:1600
1:400 - 1:1600

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #46403.

Specificity/Sensitivity

EpCAM (VU1D9) Mouse mAb detects endogenous levels of total EpCAM protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with NCI-H69 small cell lung carcinoma cells.

Background

Epithelial cell adhesion and activating molecule (EpCAM/CD326) is a transmembrane glycoprotein that mediates Ca²⁺-independent, homophilic adhesions on the basolateral surface of most epithelial cells. EpCAM is not expressed in adult squamous epithelium, but it is highly expressed in adeno and squamous cell carcinomas (1). Research studies identified EpCAM as one of the first tumor-associated antigens, and it has long been a marker of epithelial and tumor tissue. Investigators have shown that EpCAM is highly expressed in cancer cells (reviewed in 2,3).

Background References

1. Went, P.T. et al. (2004) *Hum Pathol* 35, 122-8.
2. Baeuerle, P.A. and Gires, O. (2007) *Br J Cancer* 96, 417-23.
3. Armstrong, A. and Eck, S.L. (2003) *Cancer Biol Ther* 2, 320-6.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized) **FC-L:** Flow Cytometry (Live)

Cross-Reactivity Key

H: Human

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