Revision 6

Store at +4C

#5198

EpCAM (VU1D9) Mouse mAb (Alexa Fluor® 488 Conjugate)

Cell Signaling TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-IC, FC-FP, FC-L	H	Endogenous	Mouse IgG1	#P16422	4072

Product Usage Information

Application	Dilution
Immunofluorescence (Immunocytochemistry)	1:400 - 1:1600
Flow Cytometry (Fixed/Permeabilized)	1:50 - 1:200
Flow Cytometry (Live)	1:50 - 1:200

Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity/Sensitivity

EpCAM (VU1D9) Mouse mAb (Alexa Fluor® 488 Conjugate) detects endogenous levels of total EpCAM protein.

Source / Purification

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

Description

This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated EpCAM (VU1D9) Mouse mAb #2929.

Background

Epithelial cell adhesion and activating molecule (EpCAM/CD326) is a transmembrane glycoprotein that mediates Ca^{2+}-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).

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized) **FC-L:** Flow Cytometry (Live)

Cross-Reactivity Key

H: Human

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