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EpCAM (VU1D9) Mouse mAb (PE Conjugate)

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

Applications: FC-FP, FC-L	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1	UniProt ID: #P16422	Entrez-Gene Id: 4072
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized) Flow Cytometry (Live)	Dilution 1:50 - 1:200 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 antibodies. Protect from light. Do not freeze.	
Specificity/Sensitivity	EpCAM (VU1D9) Mouse mAb (PE 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 phycoerythrin (PE) and tested in-house for direct flow cytometry 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	<ol style="list-style-type: none"> 1. Went, P.T. et al. (2004) <i>Hum Pathol</i> 35, 122-8. 2. Baeuerle, P.A. and Gires, O. (2007) <i>Br J Cancer</i> 96, 417-23. 3. Armstrong, A. and Eck, S.L. (2003) <i>Cancer Biol Ther</i> 2, 320-6. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: Flow Cytometry (Live)
Cross-Reactivity Key	H: Human
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