

10-7515: Monoclonal Antibody to EpCAM (Clone: VU-1D9)

Clonality :	Monoclonal
Clone Name :	VU-1D9
Application :	IHC,FACS,WB
Reactivity :	Human
Gene :	EPCAM
Gene ID :	4072
Uniprot ID :	P16422
Format :	Purified
Alternative Name :	EPCAM,GA733-2,M1S2,M4S1,MIC18,TACSTD1,TROP1
Isotype :	Mouse IgG1 Kappa
Immunogen Information :	The NC1-H69 human small cell lung carcinoma line was used as immunogen to generate the EpCAM antibody. The antibody binding epitope has been mapped to the first EGF-like repeat domain (EGF1) amino acids 27-59 of the EpCAM protein.

Description

EpCAM (epithelial specific antigen) is an ~40 kDa transmembrane glycoprotein involved in a number of cellular processes including adhesion, proliferation, maintenance of stemness, migration and invasion. EpCAM is expressed on most, but not all, normal epithelia and their corresponding malignancies. Although the role of EpCAM expression in tumorigenesis remains to be fully elucidated, EpCAM may downregulate immunity and help tumors actively escape from immune surveillance.

Product Info

Amount :	100 µg
Purification :	Protein G Chromatography
Content :	100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Immunohistochemical analysis: 1:100-1:200; Flowcytometry analysis: 0.2-0.5 µg/10⁶ cells, Western blot analysis: 4-6 µg/ml

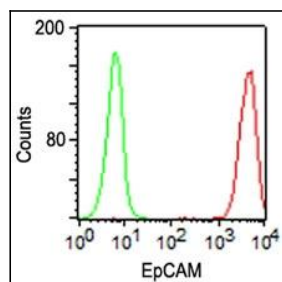


Figure-1: Surface staining of HT29 cells using EpCAM antibody (red) and isotype control antibody (green) at 0.2 µg/10⁶ cells (Clone: VU-1D9).

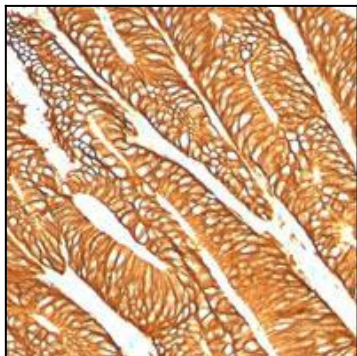


Figure-2: Immunohistochemical analysis of EpCAM in human colon cancer using EpCAM antibody (Clone: VU-1D9) at 1:100 dilution.

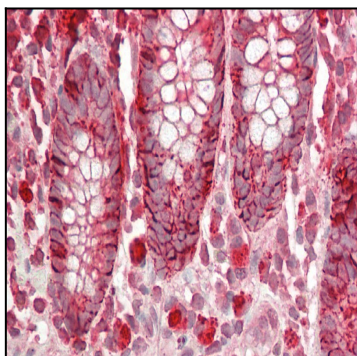


Figure-3: Immunohistochemical analysis of EpCAM in human colon tissue using EpCAM antibody (Clone: VU-1D9) at 5 µg/ml.

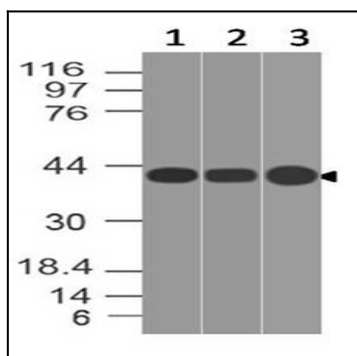


Figure-4: Western blot analysis of EpCAM. Anti- EpCAM antibody (Clone: VU-1D9) was used at 4 µg/ml in (1) HT-29, (2) HCT-116 and (3) A431 lysates