

ESA / EPCAM Antibody (clone VU-1D9)
Mouse Monoclonal Antibody
Catalog # ALS13477**Specification**

ESA / EPCAM Antibody (clone VU-1D9) - Product Information

Application	IHC
Primary Accession	P16422
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	35kDa KDa

ESA / 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

The mouse monoclonal antibody VU-1D9 recognizes an epitope within EGF-like domain I of CD326 / EpCAM, a marker of epithelial lineages. This antibody strongly stains various normal epithelial cells and carcinomas.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

ESA / EPCAM Antibody (clone VU-1D9) is for research use only and not for use in diagnostic or therapeutic procedures.

ESA / 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

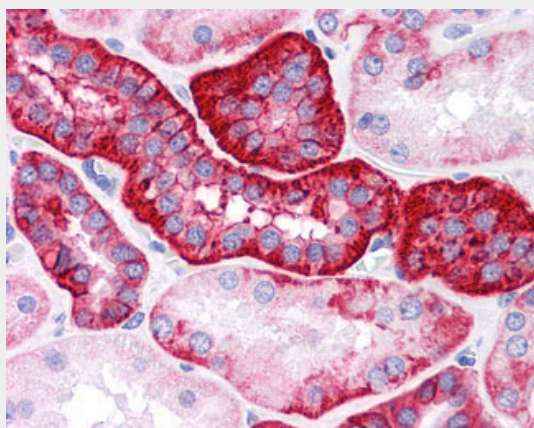
Tissue Location

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.

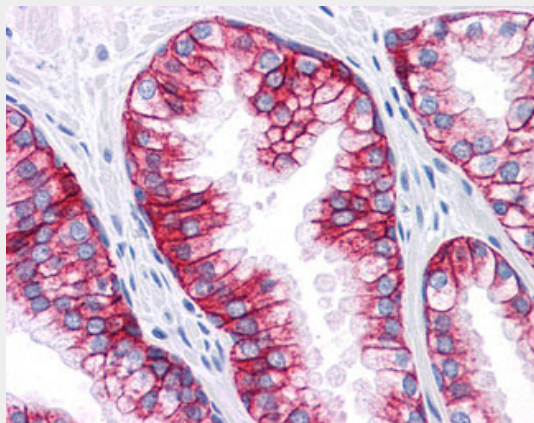
ESA / EPCAM Antibody (clone VU-1D9) - Protocols

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

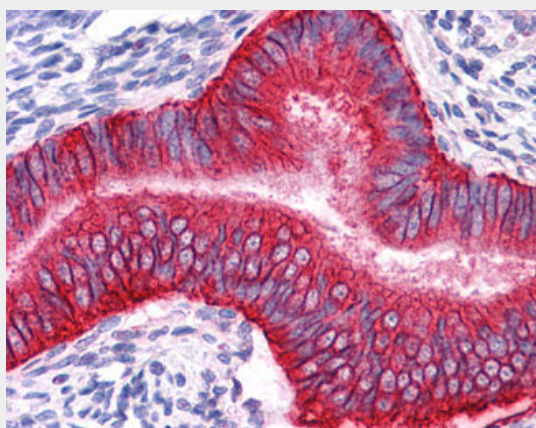
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ESA / EPCAM Antibody (clone VU-1D9) - Images

Anti-EPCAM antibody IHC of human kidney.



Anti-EPCAM antibody IHC of human prostate.



Anti-EPCAM antibody IHC of human uterus.

ESA / EPCAM Antibody (clone VU-1D9) - Background

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ESA / EPCAM Antibody (clone VU-1D9) - References

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Szala S.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:3542-3546(1990).
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