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ESA / EPCAM Antibody (clone HEA125, FITC)

Mouse Monoclonal Antibody
Catalog # ALS12916

Specification

ESA / EPCAM Antibody (clone HEA125, FITC) - Product Information

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

ESA / EPCAM Antibody (clone HEA125, FITC) - 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
Antigen Recognized in Human Species (tested so far). Cell Lines (tested so far) with colon carcinoma cell lines (HT-29, WiDr, SW1116). Recognizes the epithelial cell adhesion molecule Ep-CAM (also described as 17-1A antigen or EPG34).

Reconstitution & Storage
+4°C or -20°C, Avoid repeated freezing and thawing.

Precautions
ESA / EPCAM Antibody (clone HEA125, FITC) is for research use only and not for use in diagnostic or therapeutic procedures.

ESA / EPCAM Antibody (clone HEA125, FITC) - 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

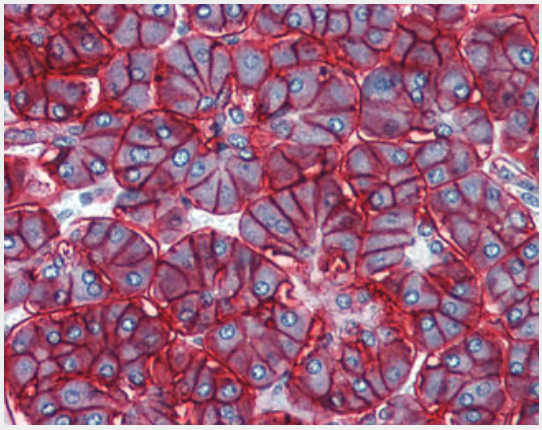
Tissue Location
Highly and selectively expressed by undifferentiated rather than differentiated embryonic stem cells (ESC) Levels rapidly diminish as soon as ESC's differentiate (at protein levels). Expressed in almost all epithelial cell membranes but not on mesodermal or neural cell membranes. Found on the surface of adenocarcinoma.

ESA / EPCAM Antibody (clone HEA125, FITC) - Protocols

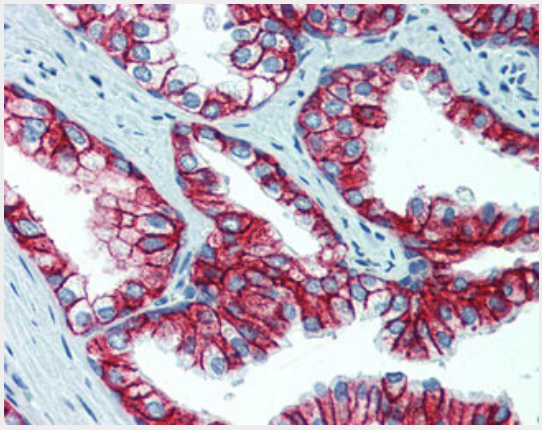
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ESA / EPCAM Antibody (clone HEA125, FITC) - Images



Anti-EPCAM antibody IHC of human pancreas.



Anti-EPCAM antibody IHC of human prostate.

ESA / EPCAM Antibody (clone HEA125, FITC) - Background

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.

ESA / EPCAM Antibody (clone HEA125, FITC) - References

Strnad J.,et al.Cancer Res. 49:314-317(1989).
Perez M.S.,et al.J. Immunol. 142:3662-3667(1989).
Simon B.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:2755-2759(1990).
Szala S.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:3542-3546(1990).
Linnenbach A.J.,et al.Mol. Cell. Biol. 13:1507-1515(1993).