

Anti-Ep-CAM / CD326 (Extracellular Domain) Antibody

Mouse Monoclonal Antibody Catalog # AH13369

Specification

Anti-Ep-CAM / CD326 (Extracellular Domain) Antibody - Product Information

Application WB, IHC-P, IF, FC

Primary Accession
Other Accession
Seactivity
Host
Clonality
Host
Monoclonal
Isotype
P16422
S42050
Human
Mouse
Mouse
Monoclonal
Mouse / IgG1

Calculated MW 34932

Anti-Ep-CAM / CD326 (Extracellular Domain) Antibody - Additional Information

Gene ID 4072

Other Names

Adenocarcinoma-associated Antigen; Cell Surface Glycoprotein Trop-1; EGP2; EGP314; EGP40; Epithelial Cell Adhesion Molecule; Epithelial Glycoprotein 314; ESA; KSA; TACD1; TROP1; Tumor-associated Calcium Signal Transducer 1 (TACSTD1); ECS-1; Epidermal Surface Antigen 1; ESA1; FLOT2; Flotillin-2; Membrane Component, Chromosome 17, Surface Marker-1 (M17S1); REG-1; Reggie-1; Reggie-2

Application Note

WB~~1:1000<br \> <span class
="dilution_IHC-P">IHC-P~ \sim N/A<br \> <span class
="dilution_IF">IF~ \sim 1:50~200<br \> FC~ \sim 1:10~50

Format

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

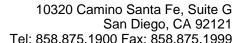
Precautions

Anti-Ep-CAM / CD326 (Extracellular Domain) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-Ep-CAM / CD326 (Extracellular Domain) Antibody - 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

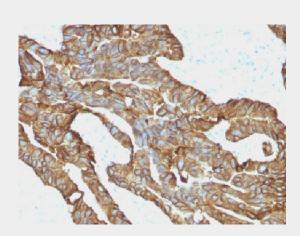
Highly and selectively expressed by undifferentiated rather than differentiated embryonic stem cells (ESC) Levels rapidly diminish as soon as ESC's differentiate (at protein levels). Expressed in almost all epithelial cell membranes but not on mesodermal or neural cell membranes. Found on the surface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

Anti-Ep-CAM / CD326 (Extracellular Domain) Antibody - Protocols

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

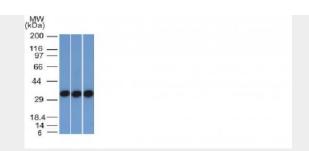
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Anti-Ep-CAM / CD326 (Extracellular Domain) Antibody - Images



Formalin-fixed, paraffin-embedded Human Colorectal Carcinoma stained with EpCAM Monoclonal Antibody (EGP40/1372).





Western Blot of 293, A431 and HCT116 Cell Lysate using EpCAM, Monoclonal Antibody (EGP40/1372).

Anti-Ep-CAM / CD326 (Extracellular Domain) Antibody - Background

EGP40 is a 40-43kDa transmembrane epithelial glycoprotein, also identified as epithelial specific antigen (ESA), or epithelial cellular adhesion molecule (Ep-CAM). It is expressed on baso-lateral cell surface in most simple epithelia and a vast majority of carcinomas. This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.