

For Research Use Only

EPCAM/CD326 Polyclonal antibody



Catalog Number: 21050-1-AP

Featured Product

39 Publications

Basic Information

Catalog Number: 21050-1-AP	GenBank Accession Number: BC014785	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 287 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4072	Recommended Dilutions: WB 1:500-1:2000 IHC 1:500-1:1200 IF 1:50-1:500
Source: Rabbit	Full Name: epithelial cell adhesion molecule	
Isotype: IgG	Calculated MW: 314 aa, 35 kDa	
Immunogen Catalog Number: AG15393	Observed MW: 35-40 kDa	

Applications

Tested Applications:
FC, IF, IHC, WB, ELISA

Cited Applications:
ChIP, FC, IF, IHC, WB

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: A431 cells, MCF-7 cells, mouse colon tissue

IHC: human colon tissue, human colon cancer tissue, human breast cancer tissue

IF: MCF-7 cells, human colon cancer tissue

Background Information

Epithelial cell adhesion molecule (EpCAM, CD326) is a type I transmembrane glycoprotein that functions as a homophilic, epithelial-specific intercellular cell-adhesion molecule. In addition to cell adhesion, EpCAM is also involved in cellular signaling, cell migration, proliferation, and differentiation. EpCAM is highly expressed on most carcinomas and therefore of potential use as a diagnostic and prognostic marker for a variety of carcinomas, and has become a therapeutic target. EpCAM may occur in distinct forms due to glycosylation. (PMID: 20837599; 19249674; 21576002; 22647938; 12691820)

Notable Publications

Author	Pubmed ID	Journal	Application
Xue Liu	30246502	J Cell Physiol	WB,IHC,IF
Chaoqun Liu	34551797	J Exp Clin Cancer Res	WB,IF
Haiyong Wang	27432228	Mol Med Rep	WB,IHC

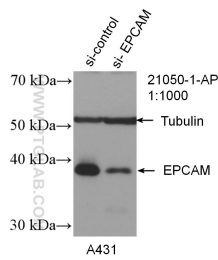
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

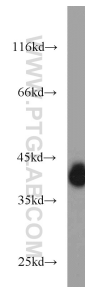
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

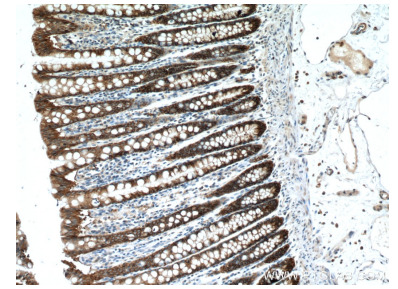
Selected Validation Data



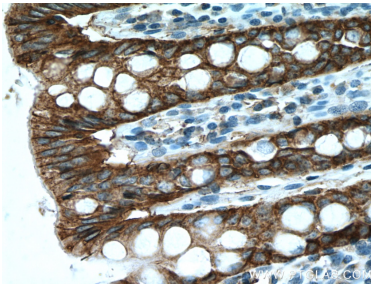
WB result of EPCAM antibody (21050-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EPCAM transfected A431 cells.



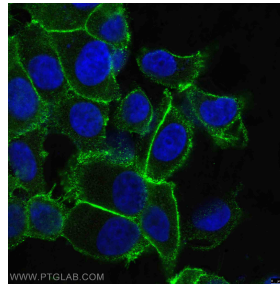
A431 cells were subjected to SDS PAGE followed by western blot with 21050-1-AP (EPCAM antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



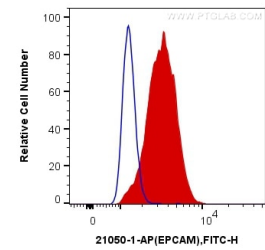
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 21050-1-AP (EPCAM antibody) at dilution of 1:600 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 21050-1-AP (EPCAM antibody) at dilution of 1:600 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using 21050-1-AP (EPCAM antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10⁶ A431 cells were surface stained with 0.4 ug Anti-Human EPCAM (21050-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were not fixed.