For Research Use Only

Anti-Mouse E-cadherin (DECMA-1)

Catalog Number:65241-1-Ig

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
65241-1-Ig

Size:
100ug , 0.5 mg/mL

Source:
Rat

Isotype:
IgG1, kappa

GenBank Accession Number:
BC098501

GeneID (NCBI):
12550

UNIPROT ID:
P09803

Full Name:
cadherin 1

Purification Method:
Affinity purification

CloneNo.:
DECMA-1

Recommended Dilutions:
IF-P: 1:625-1:2500
FC: 0.2 ug per 10^6 cells in 100 µl suspension

Applications

Tested Applications:
IF-P, FC

Species Specificity:
human, mouse, canine

Positive Controls:

IF-P : mouse colon tissue,

FC : MDCK cells,

Background Information

Cadherins are a family of transmembrane glycoproteins that mediate calcium-dependent cell-cell adhesion and play an important role in the maintenance of normal tissue architecture. E-cadherin (epithelial cadherin), also known as CDH1 (cadherin 1) or CAM 120/80, is a classical member of the cadherin superfamily which also include N-, P-, R-, and B-cadherins. It has been regarded as a marker for spermatogonial stem cells in mice(PMID:23509752). E-cadherin is expressed on the cell surface in most epithelial tissues. The extracellular region of E-cadherin establishes calcium-dependent homophilic trans binding, providing specific interaction with adjacent cells, while the cytoplasmic domain is connected to the actin cytoskeleton through the interaction with p120-, α-, β-, and γ -catenin (plakoglobin). E-cadherin is important in the maintenance of the epithelial integrity, and is involved in mechanisms regulating proliferation, differentiation, and survival of epithelial cell. E-cadherin may also play a role in tumorigenesis. It is considered to be an invasion suppressor protein and its loss is an indicator of high tumor aggressiveness.

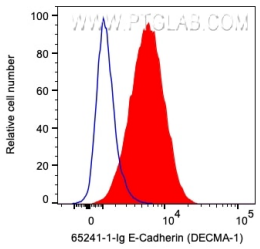
Storage

Storage:
Store at 2-8°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide, pH7.3

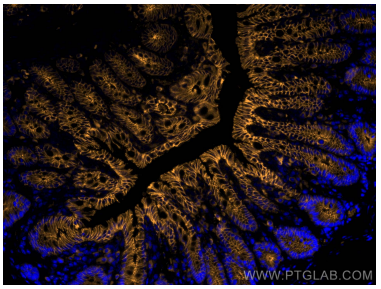
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

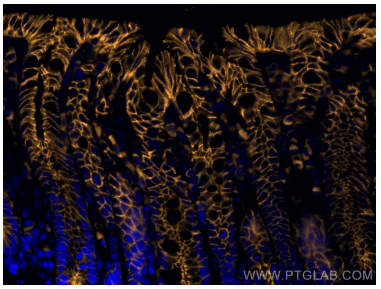
Selected Validation Data



1X10^6 MDCK cells were surface stained with 0.2 ug Anti-Mouse CD324 (E-cadherin) (65241-1-Ig, Clone:DECMA-1) and APC-conjugated Goat Anti-Rat IgG at dilution 1:1000. Cells were not fixed.



Immunofluorescent analysis of (4% PFA) fixed mouse colon tissue using CD324 (E-cadherin) antibody (65241-1-Ig, Clone: DECMA-1) at dilution of 1:1250 and Rhodamine (TRITC)-conjugated Goat Anti-Rat IgG(H+L).



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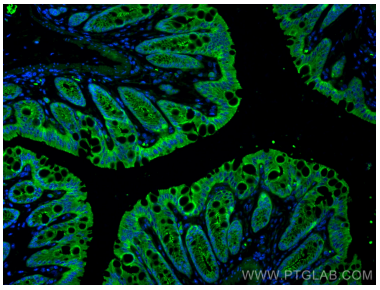

Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse colon tissue using CD324 (E-cadherin) antibody (65241-1-Ig, Clone: DECMA-1) at dilution of 1:100 and Fluorescein (FITC)-conjugated Goat Anti-Rat IgG(H+L) SA00003-11. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).