

For Research Use Only

CoraLite® Plus 647 Anti-Mouse E-cadherin (DECMA-1)

Catalog Number: CL647-65241

1 Publications



Basic Information

Catalog Number:

CL647-65241

Concentration:

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:

N/A

CloneNo.:

DECMA-1

Recommended Dilutions:

FC: 0.5 ug per 10⁶ cells in 100 μ l suspension

Excitation/Emission maxima wavelengths:

654 nm / 674 nm

Applications

Tested Applications:

FC

Species Specificity:

human, mouse, canine

Cited Species:

mouse

Positive Controls:

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Minglu Zhou	38553476	Nat Commun	

Storage

Storage:

Store at 2-8°C. Avoid exposure to light. 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:

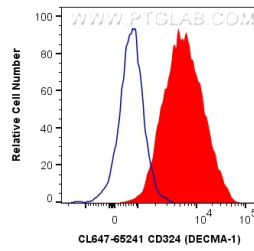
T: 4006900926

E: Proteintech-CN@ptglab.com

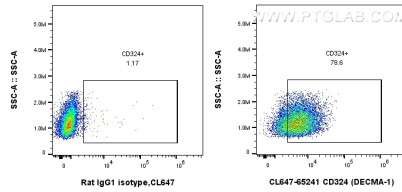
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Selected Validation Data



1X10⁶ MDCK cells were surface stained with 0.5 ug CoraLite® Plus 647 Anti-Mouse CD324 (E-cadherin) (CL647-65241, Clone:DECMA-1) (red), or or 0.5 ug CoraLite® Plus 647 Rat IgG1 Isotype Control (HRPN) (CL647-65212, Clone: HRPN) (blue). Cells were not fixed.



1X10⁶ MDCK cells were surface stained with 0.5 ug CoraLite® Plus 647 Anti-Mouse CD324 (E-cadherin) (CL647-65241, Clone:DECMA-1), or 0.5 ug CoraLite® Plus 647 Rat IgG1 Isotype Control (HRPN) (CL647-65212, Clone: HRPN). Cells were not fixed.