

For Research Use Only

# Anti-Human CD324 (E-cadherin) Rabbit Recombinant Antibody

Catalog Number: 98030-2-RR



## Basic Information

Catalog Number:

98030-2-RR

Size:

100ug, 1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14973

GenBank Accession Number:

BC141838

GeneID (NCBI):

999

UNIPROT ID:

P12830

Full Name:

cadherin 1, type 1, E-cadherin (epithelial)

Calculated MW:

882 aa, 97 kDa

Purification Method:

Protein A purification

CloneNo.:

240159B4

## Applications

Tested Applications:

FC

Species Specificity:

human

## 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 CD324, CDH1 (cadherin 1) or CAM 120/80, is a classical member of the cadherin superfamily which also include N-, P-, R-, and B-cadherins. 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-,  $\alpha$ -,  $\beta$ -, and  $\gamma$ -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.

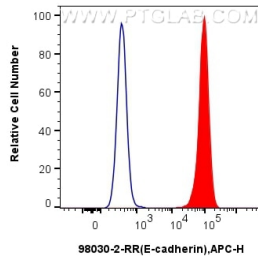
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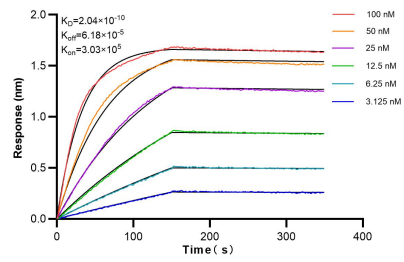
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## Selected Validation Data



1x10<sup>6</sup> MCF-7 cells were surface stained with 0.25 ug Anti-Human CD324 (E-cadherin) Rabbit Recombinant Antibody (98030-2-RR, Clone:240159B4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells should be stained prior to fixation.



Biolayer interferometry (BLI) kinetic assays of 98030-2-RR against Human E-cadherin were performed. The affinity constant is 0.204 nM.