

E-cadherin Recombinant antibody

Catalog Number: 80541-5-RR

Basic Information

Catalog Number:

80541-5-RR

Size:

1000 µg/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

Observed MW:

135 kDa

Purification Method:

Protein A purification

CloneNo.:

240159C10

Recommended Dilutions:

WB 1:5000-1:50000

IF 1:125-1:500

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

Human

Positive Controls:**WB :** Caco-2 cells, A431 cells, T-47D cells**IF :** MCF-7 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. 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 -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

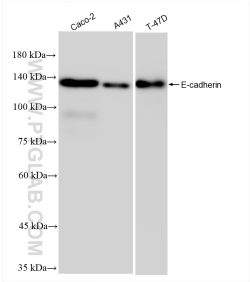
For technical support and original validation data for this product please contact:

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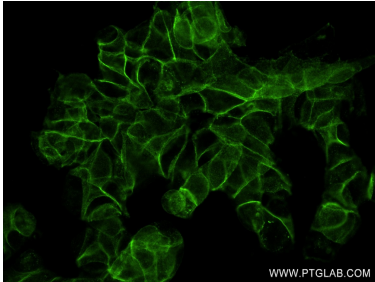
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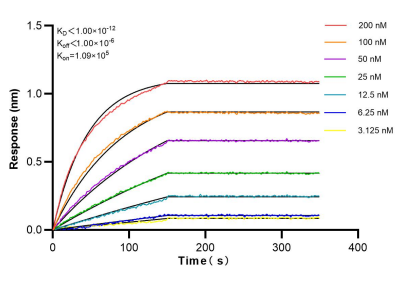
Selected Validation Data



Caco-2 cells were subjected to SDS PAGE followed by western blot with 80541-5-RR (E-cadherin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using E-cadherin antibody (80541-5-RR, Clone: 240159C10) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 80541-5-RR against Human E-cadherin were performed. The affinity constant is below 1 pM.