

For Research Use Only

E-cadherin Recombinant antibody, PBS Only



Catalog Number: 80541-9-PBS

Basic Information

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| Catalog Number: 80541-9-PBS | GenBank Accession Number: BC141838 | Purification Method: Protein A purification |
| Size: 100ug, Concentration: 1 mg/ml by Nanodrop; | GeneID (NCBI): 999 | CloneNo.: 240159G8 |
| Source: Rabbit | UNIPROT ID: P12830 | |
| Isotype: IgG | Full Name: cadherin 1, type 1, E-cadherin (epithelial) | |
| Immunogen Catalog Number: AG14973 | Calculated MW: 882 aa, 97 kDa | |

Applications

Tested Applications:
WB, IF/ICC, ELISA

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 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

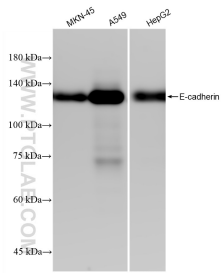
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

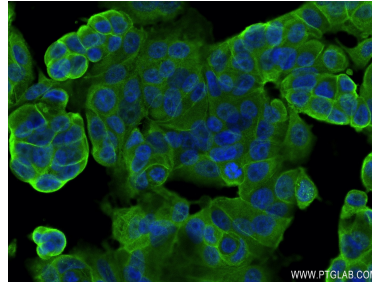
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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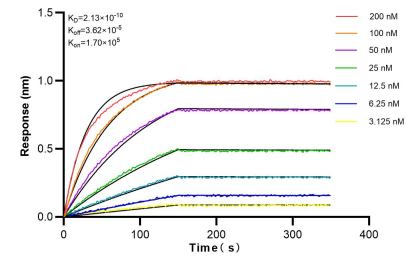
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 80541-9-RR (E-cadherin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80541-9-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using E-cadherin antibody (80541-9-RR, Clone: 240159G8) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 80541-9-PBS in a different storage buffer formulation.



Biacore interferometry (BLI) kinetic assays of 80541-9-RR against Human E-cadherin were performed. The affinity constant is 0.213 nM.