For Research Use Only

E-cadherin Recombinant antibody, PBS Only

Catalog Number: 80541-9-PBS



Purification Method:

Protein A purfication

CloneNo.:

240159G8

Basic Information

Catalog Number: GenBank Accession Number:

80541-9-PBS

Nanodrop:

Rabbit

BC141838

GeneID (NCBI):

100ug, Concentration: 1 mg/ml by

UNIPROT ID: P12830 Full Name:

Isotype: cadherin 1, type 1, E-cadherin

(epithelial) IgG Immunogen Catalog Number: Calculated MW: 882 aa, 97 kDa AG14973

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA Species Specificity:

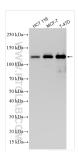
Background Information

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 $p120-, a-, \beta-, and \gamma - catenin (plakoglobin). E-cadherin is important in the maintenance of the epithelial integrity, and properties of the epithelial integrity of the$ 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.

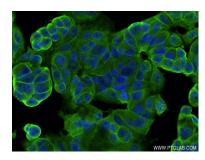
Storage

Storage: Store at -80°C. Storage Buffer: PBS only

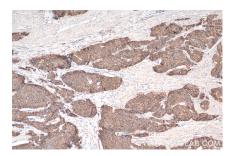
Selected Validation Data



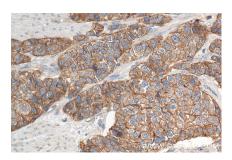
Various lysates were subjected to SDS PAGE followed by western blot with 80541-9-RR (E-cadherin antibody) at dilution of 1:70000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80541-9-PBS in a different storage buffer formulation.



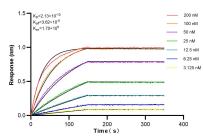
Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using E-cadherin antibody (80541-9-RR, Clone: 240159G8) at dilution of 1:250 and CoraLite® 488-Conjugated Affini Pure Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 80541-9-PBS in a different storage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



Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 80541-9-RR (E-cadherin antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80541-9-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 80541-9-RR (E-cadherin antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80541-9-PBS in a different storage buffer formulation.



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