

# E-cadherin Recombinant antibody

Catalog Number: 84111-1-RR

## Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
84111-1-RR	NM_009864.3	Protein A purification
Concentration:	GeneID (NCBI):	CloneNo.:
1000 µg/ml	12550	241282A5
Source:	UNIPROT ID:	Recommended Dilutions:
Rabbit	P09803	IHC: 1:1000-1:4000
Isotype:	Full Name:	
IgG	cadherin 1	
Immunogen Catalog Number:	Calculated MW:	
EG0975	98kDa	

## Applications

Tested Applications:	Positive Controls:
IHC, ELISA	IHC : mouse colon tissue, mouse kidney tissue, mouse skin tissue
Species Specificity:	
mouse	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

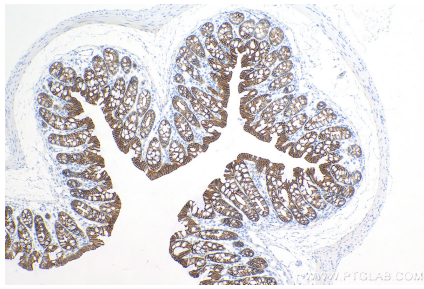
## Background Information

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-,  $\alpha$ -,  $\beta$ -, 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. E-cadherin is sensitive to trypsin digestion in the absence of  $\text{Ca}^{2+}$ .

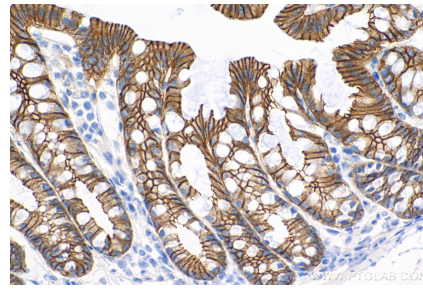
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 84111-1-RR (E-Cadherin antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 84111-1-RR (E-Cadherin antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).