

For Research Use Only

# CoraLite® Plus 488-conjugated E-cadherin Recombinant monoclonal antibody

Catalog Number: CL488-84646-3



## Basic Information

|                                                |                           |                                         |
|------------------------------------------------|---------------------------|-----------------------------------------|
| Catalog Number:                                | GenBank Accession Number: | Purification Method:                    |
| CL488-84646-3                                  | NM_031334.1               | Protein A purification                  |
| Size:                                          | GeneID (NCBI):            | CloneNo.:                               |
| 100ul , Concentration: 1000 ug/ml by Nanodrop; | 83502                     | 242018D3                                |
| Source:                                        | UNIPROT ID:               | Recommended Dilutions:                  |
| Rabbit                                         | Q9ROT4                    | IF-P: 1:50-1:500                        |
| Isotype:                                       | Full Name:                | Excitation/Emission maxima wavelengths: |
| IgG                                            | cadherin 1                | 493 nm / 522 nm                         |
| Immunogen Catalog Number:                      | Calculated MW:            |                                         |
| EG1229                                         | 99 kDa                    |                                         |
|                                                | Observed MW:              |                                         |
|                                                | 125 kDa                   |                                         |

## Applications

|                      |                          |
|----------------------|--------------------------|
| Tested Applications: | Positive Controls:       |
| IF-P                 | IF-P : rat colon tissue, |
| Species Specificity: |                          |
| human, mouse, rat    |                          |

## 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.

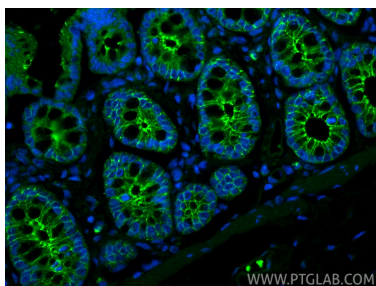
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

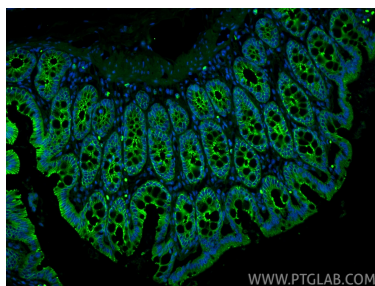
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## Selected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



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat colon tissue using CoraLite® Plus 488 E-cadherin antibody (CL488-84646-3, Clone: 242018D3 ) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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