

For Research Use Only

# FcZero-rAb™ Biotin Anti-Human E-cadherin Rabbit Recombinant Antibody

Catalog Number: Biotin-FcA98030



## Basic Information

Catalog Number:	Biotin-FcA98030	GenBank Accession Number:	BC141838	Purification Method:	Protein A purification
Size:	1000ug, 500 ug/ml	GenelD (NCBI):	999	CloneNo.:	240159G8
Source:	Rabbit	UNIPROT ID:	P12830	Recommended Dilutions:	FC: 0.25 ug per 10 <sup>6</sup> cells in a 100 µl suspension
Isotype:	IgG	Full Name:	cadherin 1, type 1, E-cadherin (epithelial)	Excitation/Emission maxima wavelengths:	-
Immunogen Catalog Number:	AG14973	Calculated MW:	882 aa, 97 kDa		

## Applications

Tested Applications:	Positive Controls:
FC, ELISA	FC : HT-29 cells, MCF-7 cells
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 CD324, 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.

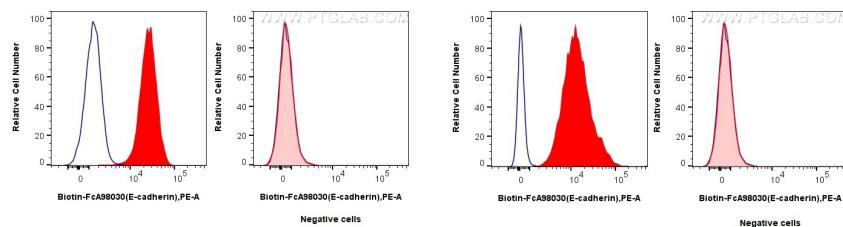
## Storage

**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.09% sodium azide, pH7.3

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



1x10<sup>6</sup> HT-29 cells (left) or Jurkat cells (right) were surface stained with 0.25 ug Biotin Anti-Human E-cadherin Rabbit RecAb (Biotin-FcA98030, Clone:240159G8) and Streptavidin-PE Conjugate (PE-PF00030) (red), or 5 ul FcZero-rAb™ Biotin Rabbit IgG Isotype Control Recombinant Antibody (Biotin-FcA98136, Clone: 240953C9) (blue). Cells were not fixed.

1x10<sup>6</sup> MCF-7 cells (left) or Jurkat cells (right) were surface stained with 0.25 ug Biotin Anti-Human E-cadherin Rabbit RecAb (Biotin-FcA98030, Clone:240159G8) and Streptavidin-PE Conjugate (PE-PF00030) (red), or 5 ul FcZero-rAb™ Biotin Rabbit IgG Isotype Control Recombinant Antibody (Biotin-FcA98136, Clone: 240953C9) (blue). Cells were not fixed.