

For Research Use Only

# FcZero-rAb® PE-Cyanine7 Anti-Human E-cadherin Rabbit Recombinant Antibody

Catalog Number: PY7-FcA98030



## Basic Information

<b>Catalog Number:</b> PY7-FcA98030	<b>GenBank Accession Number:</b> BC141838	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100tests , 5 ul/test	<b>GeneID (NCBI):</b> 999	<b>CloneNo.:</b> 240159G8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P12830	<b>Recommended Dilutions:</b> FC: 5 ul per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Isotype:</b> IgG	<b>Full Name:</b> cadherin 1, type 1, E-cadherin (epithelial)	<b>Excitation/Emission maxima wavelengths:</b> 496 nm, 565 nm / 778 nm
<b>Immunogen Catalog Number:</b> AG14973	<b>Calculated MW:</b> 882 aa, 97 kDa	

## Applications

<b>Tested Applications:</b> FC	<b>Positive Controls:</b> FC : MCF-7 cells,
<b>Species Specificity:</b> 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.

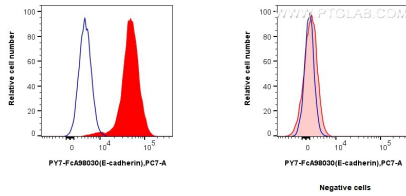
## Storage

**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

For technical support and original validation data for this product please contact:  
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## Selected Validation Data



$1 \times 10^6$  MCF-7 cells (left) or Jurkat (right) were surface stained with 5  $\mu$ l PE-Cyanine7 Anti-Human E-cadherin Rabbit RecAb (PY7-FcA98030, Clone:240159G8)(red), or 5  $\mu$ l FcZero-rAb@ PE-Cyanine7 Rabbit IgG Isotype Control Recombinant Antibody (PY7-FcA98136, Clone: 240953C9)(blue). Cells were incubated with MonoZero™ Monocytes blocking Reagent(PF00020) prior to staining. Cells were not fixed.