

# iFluor™ 594 Conjugated Anti-E-Cadherin Antibody [SY0287]

## HA720164F



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	IF-Tissue
<b>Molecular Wt:</b>	Predicted band size: 97 kDa
<b>Clone number:</b>	SY0287

**Description:** Cadherins comprise a family of Ca<sup>2+</sup>-dependent adhesion molecules that function to mediate cell-cell binding critical to the maintenance of tissue structure and morphogenesis. Members of this family of adhesion proteins include rat cadherin K (and its human homolog, cadherin-6), R-cadherin, B-cadherin, E/P cadherin and cadherin-5. The classical cadherins, E-, N- and P-cadherin, consist of large extracellular domains characterized by a series of five homologous NH<sub>2</sub> terminal repeats. The most distal of these cadherins is thought to be responsible for binding specificity, transmembrane domains and carboxy terminal intracellular domains. The relatively short intracellular domains interact with a variety of cytoplasmic proteins, such as β-catenin, to regulate cadherin function.

**Conjugate:** iFluor™ 594, Ex: 588nm; Em: 604nm.

**Immunogen:** Synthetic peptide within Human E-Cadherin aa 591-640 / 882.

**Positive control:** Human breast carcinoma tissue.

**Subcellular location:** Endosome, Cell membrane, trans-Golgi network, adherens junction.

**Database links:** SwissProt: P12830 Human

**Recommended Dilutions:**

**IF-Tissue** 1:50

**Storage Buffer:** Preservative: 0.02% Sodium azide Constituents: 30% Glycerol, 1% BSA, 68.98% PBS

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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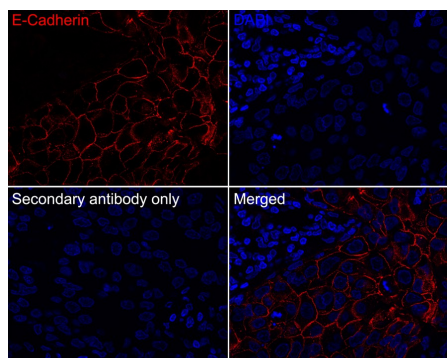
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## Images



**Fig1:** Immunofluorescence analysis of paraffin-embedded human breast carcinoma tissue labeling E-Cadherin (HA720164F).

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS. And then probed with the primary antibody E-Cadherin (HA720164F, iFluor™ 594) at 1/50 dilution overnight at 4 °C, washed with PBS. DAPI was used as nuclear counterstain.

**Note:** All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

## Background References

1. Su B et al. Diallyl disulfide suppresses epithelial-mesenchymal transition, invasion and proliferation by downregulation of LIMK1 in gastric cancer. *Oncotarget* 7:10498-512 (2016).
2. Schmidt TP et al. Identification of E-cadherin signature motifs functioning as cleavage sites for *Helicobacter pylori* HtrA. *Sci Rep* 6:23264 (2016).

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