

iFluor™ 488 Conjugated Anti-E-Cadherin Antibody [SY0287]

HA720159F



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	IF-Cell, FC
Molecular Wt:	Predicted band size: 97 kDa
Clone number:	SY0287

Description: Cadherins comprise a family of Ca²⁺-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 NH₂ 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™ 488, Ex: 491nm; Em: 516nm.

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

Positive control: MCF-7, A431.

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

Database links: SwissProt: P12830 Human

Recommended Dilutions:

IF-Cell	1:100
FC	1:50-1:1,000

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.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn


www.huabio.cn

Images

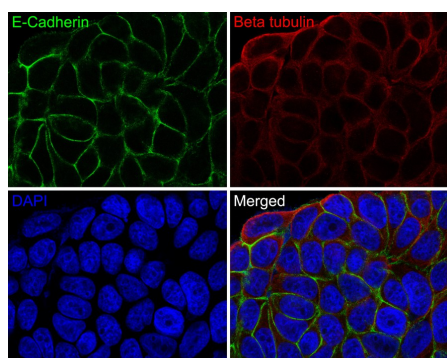


Fig1: Immunocytochemistry analysis of MCF-7 cells labeling E-Cadherin with Rabbit anti-E-Cadherin antibody (HA720159F) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes, and then blocked with 2% normal goat serum for 1 hour at 37 °C. Cells were then incubated with Rabbit anti-E-Cadherin antibody (HA720159F) at 1/100 dilution in 2% normal goat serum overnight at 4 °C. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/200 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) were used as the secondary antibody at 1/800 dilution.

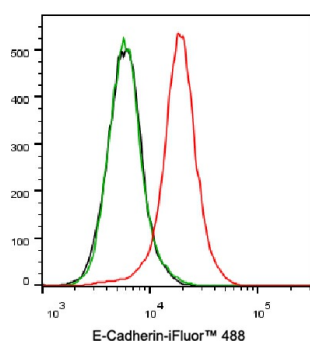


Fig2: Flow cytometric analysis of A431 cells labeling E-Cadherin.

Cells were washed twice with cold PBS and resuspend. Then incubated for 30 minutes at +4°C with E-Cadherin (HA720159F, red, 1ug/ml) and Rabbit IgG Isotype Control (iFluor™ 488, green, 1ug/ml). Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

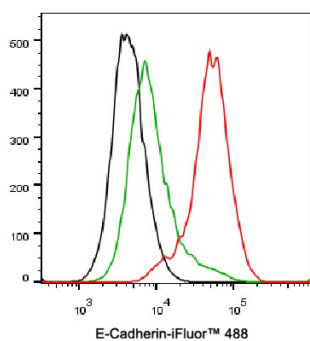


Fig3: Flow cytometric analysis of MCF-7 cells labeling E-Cadherin.

Cells were washed twice with cold PBS and resuspend. Then incubated for 30 minutes at +4°C with E-Cadherin (HA720159F, red, 10ug/ml) and Rabbit IgG Isotype Control (iFluor™ 488, green, 10ug/ml). Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

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).

Hangzhou Huan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn