Website: thermofisher.com
Customer Service (US): 1 800 955 6288 ext. 1
Technical Support (US): 1 800 955 6288 ext. 441
thermofisher.com/contactus

Performance guaranteed

# E-cadherin Monoclonal Antibody (67A4), FITC

**Catalog Number** **MA1-10194**

**Product data sheet**

| Details | |
|---|---|
| **Size** | 100 Tests |
| **Host/Isotope** | Mouse / IgG1 |
| **Class** | Monoclonal |
| **Type** | Antibody |
| **Clone** | 67A4 |
| **Immunogen** | T-47D cells |
| **Conjugate** | FITC |
| **Form** | Liquid |
| **Storage Conditions** | 4° C, store in dark, DO NOT FREEZE! |

| Species Reactivity | |
|---|---|
| **Species reactivity** | Human |

| Tested Applications | Dilution * |
|---|---|
| **Flow Cytometry (Flow)** | 20 µL/1x10^6 cells |
| **Immunocytochemistry (ICC/IF)** | 1:100 |

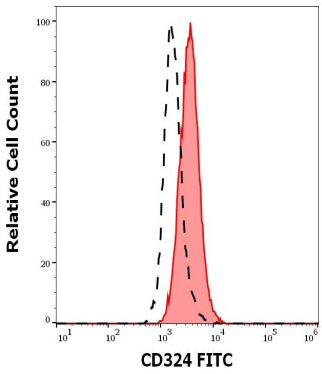
* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

## Background/Target Information

E-Cadherin (epithelial cadherin) is a classical cadherin from the cadherin (alcium dependent adhesion protein) superfamily. The encoded protein is a calcium dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Mutations in this gene are correlated with gastric, breast, colorectal, thyroid and ovarian cancer. Loss of function is thought to contribute to progression in cancer by increasing proliferation, invasion, and/or metastasis. The ectodomain of this protein mediates bacterial adhesion to mammalian cells and the cytoplasmic domain is required for internalization. Identified transcript variants arise from mutation at consensus splice sites. E-cadherin plays a central role in the growth and development of cells by controlling tissue architecture, and maintenance of tissue integrity. In humans, E-cadherin is encoded by the CDH1 gene present on chromosome 16. Studies have demonstrated that reduction and/or loss of E-cadherin expression in carcinomas correlates positively with the potential of these tumors for invasion and metastasis.

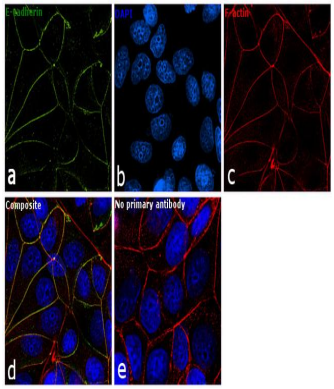
*For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.*

## Product Images For E-cadherin Monoclonal Antibody (67A4), FITC




### E-cadherin Antibody (MA1-10194) in Flow

Separation of HT-29 cells stained using anti-human CD324 (67A4) FITC Monoclonal antibody (Product # MA1-10194) (20 µL reagent per million cells in 100 µL of cell suspension, red-filled) from HT-29 cells stained using mouse IgG1 isotype control (MOPC-21) FITC antibody (concentration in sample 10 µg/mL, same as CD324 FITC concentration, black-dashed) in flow cytometry analysis (surface staining) of HT-29 cell suspension.




### E-cadherin Antibody (MA1-10194) in ICC/IF

Immunofluorescence analysis of E-cadherin was performed using 90% confluent log phase MCF7 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with E-Cadherin Monoclonal Antibody (Product # MA1-10194) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing plasma membrane localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



Thermo Fisher Scientific
3747 N. Meridian Road
Rockford, IL 61105 USA

thermofisher.com/contactus