

E-cadherin Monoclonal Antibody (67A4), FITC

Catalog NumberMA1-10194

Product data sheet

Details		Species Reactivity	
Size	100 Tests	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested Applications	
Class	Monoclonal	Flow Cytometry (Flow)	Dilution *20 µL/1x10^6 cells
Type	Antibody	Immunocytochemistry (ICC/IF)	1:100
Clone	67A4	* 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.	
Immunogen	T-47D cells		
Conjugate	FITC		
Form	Liquid		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Background/Target Information

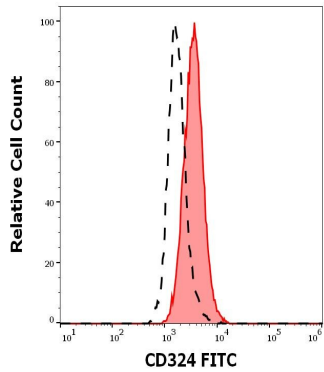
E-Cadherin (epithelial cadherin) is a classical cadherin from the cadherin (alcium dependent adhesion protein) superfamily. The encoded protein is a calcium dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic 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.

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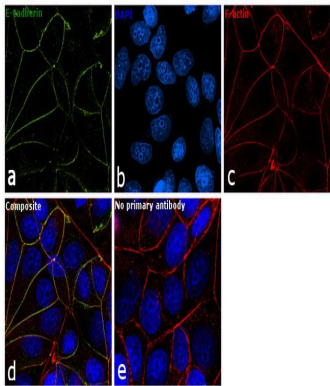
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E-cadherin Antibody (MA1-10194) in Flow

Separation of HT-29 cells stained using anti-human CD324 (67A4) FITC Monoclonal antibody (Product # MA1-10194) (20 μ L reagent per million cells in 100 μ L of cell suspension, red-filled) from HT-29 cells stained using mouse IgG1 isotype control (MOPC-21) FITC antibody (concentration in sample 10 μ g/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.

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