

Product datasheet

info@arigobio.com

ARG65403 anti-E Cadherin antibody [67A4] (FITC)

Package: 50 tests Store at: 4°C

Summary

Product Description FITC-conjugated Mouse Monoclonal antibody [67A4] recognizes E Cadherin

Tested Reactivity Hu
Tested Application FACS

Specificity The mouse monoclonal antibody 67A4 recognizes CD324 / Ecadherin, an approximately 100 kDa

epithelial cell adhesion molecule, whose detection is important for determination of invasive potential

of epithelial neoplasms.

HLDA VIII

Host Mouse

Clonality Monoclonal

Clone 67A4 Isotype IgG1

Target Name E Cadherin

Immunogen T-47D cells_x000D_

Conjugation FITC

Alternate Names Uvomorulin; Arc-1; Cadherin-1; E-cadherin; CDHE; CD antigen CD324; ECAD; CAM 120/80; LCAM;

Epithelial cadherin; UVO; CD324

Application Instructions

Application table	Application	Dilution
	FACS	20 μl / 10^6 cells
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Note The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions.

The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.

Buffer PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA

Preservative 15 mM Sodium azide

Stabilizer 0.2% (w/v) high-grade protease free BSA

Storage instruction Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid

repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GeneID: 999 Human

Swiss-port # P12830 Human

Gene Symbol CDH1

Gene Full Name cadherin 1, type 1, E-cadherin (epithelial)

Background E Cadherin is a classical cadherin of the cadherin superfamily. Alternative splicing results in multiple

> transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion protein is 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 of this gene is thought to contribute to cancer progression 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. This gene is present in a gene cluster

with other members of the cadherin family on chromosome 16. [provided by RefSeq, Nov 2015]

Function Cadherins are calcium-dependent cell adhesion proteins (PubMed:11976333). They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. CDH1 is involved in mechanisms regulating cell-cell adhesions,

> mobility and proliferation of epithelial cells (PubMed:11976333). Has a potent invasive suppressor role. It is a ligand for integrin alpha-E/beta-7.

E-Cad/CTF2 promotes non-amyloidogenic degradation of Abeta precursors. Has a strong inhibitory effect on APP C99 and C83 production.

(Microbial infection) Serves as a receptor for Listeria monocytogenes; internalin A (InIA) binds to this

protein and promotes uptake of the bacteria. [UniProt]

Research Area EMT Study antibody; Epithelial Marker antibody

Calculated Mw 97 kDa

ртм

During apoptosis or with calcium influx, cleaved by a membrane-bound metalloproteinase (ADAM10), PS1/gamma-secretase and caspase-3 to produce fragments of about 38 kDa (E-CAD/CTF1), 33 kDa (E-CAD/CTF2) and 29 kDa (E-CAD/CTF3), respectively. Processing by the metalloproteinase, induced by

calcium influx, causes disruption of cell-cell adhesion and the subsequent release of beta-catenin into the cytoplasm. The residual membrane-tethered cleavage product is rapidly degraded via an intracellular proteolytic pathway. Cleavage by caspase-3 releases the cytoplasmic tail resulting in disintegration of the actin microfilament system. The gamma-secretase-mediated cleavage promotes

disassembly of adherens junctions.

N-glycosylation at Asn-637 is essential for expression, folding and trafficking.

Ubiquitinated by a SCF complex containing SKP2, which requires prior phosphorylation by CK1/CSNK1A1. Ubiquitinated by CBLL1/HAKAI, requires prior phosphorylation at Tyr-754.

arigo, nuts about antibodies www.arigobio.com 2/2