

ARG52595 anti-E Cadherin antibody

Package: 500 µl, 250 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes E Cadherin
Tested Reactivity	Hu, Pig
Tested Application	ELISA, ICC/IF, IHC-Fr, IHC-P
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	E Cadherin
Species	Human
Immunogen	Recombinant protein encoding aa 600-707 of human E-Cadherin.
Conjugation	Un-conjugated
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
	ELISA	Assay-Dependent
	ICC/IF	Assay-Dependent
	IHC-Fr	Assay-Dependent
	IHC-P	1:30
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min. Incubation Time: 30 min at RT. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Breast, Skin, Tonsil	

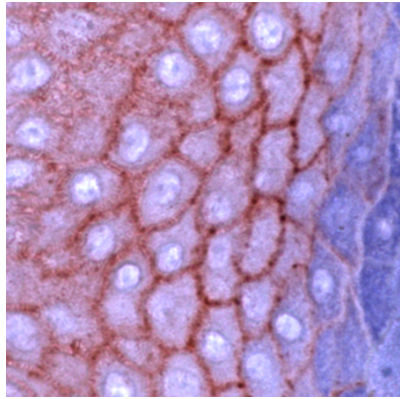
Properties

Form	Liquid
Purification	Immunogen affinity purified
Buffer	PBS (pH 7.6), 1% BSA and < 0.1% Sodium azide
Preservative	< 0.1% Sodium azide
Stabilizer	1% BSA

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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
Background	<p>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]</p>
Function	<p>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.</p> <p>E-Cad/CTF2 promotes non-amyloidogenic degradation of Abeta precursors. Has a strong inhibitory effect on APP C99 and C83 production.</p> <p>(Microbial infection) Serves as a receptor for <i>Listeria monocytogenes</i>; internalin A (InIA) binds to this protein and promotes uptake of the bacteria. [UniProt]</p>
Highlight	<p>Related products: E Cadherin antibodies; E Cadherin Duos / Panels; Anti-Rabbit IgG secondary antibodies;</p> <p>Related news: Want to know if you have cancer? – Just look at your urine</p>
Research Area	EMT Study antibody; Epithelial Marker antibody
Calculated Mw	97 kDa
PTM	<p>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.</p> <p>N-glycosylation at Asn-637 is essential for expression, folding and trafficking.</p> <p>Ubiquitinated by a SCF complex containing SKP2, which requires prior phosphorylation by CK1/CSNK1A1. Ubiquitinated by CBL1/HAKAI, requires prior phosphorylation at Tyr-754.</p>
Cellular Localization	Membrane



ARG52595 anti-E Cadherin antibody IHC-P image

Immunohistochemistry: Human Skin stained with ARG52595 anti-E Cadherin antibody.
