

ARG42833 anti-R Cadherin / Cadherin 4 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes R Cadherin / Cadherin 4
Tested Reactivity	Hu
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	R Cadherin / Cadherin 4
Species	Human
Immunogen	Recombinant protein corresponding to K458-D641 of Human R Cadherin / Cadherin 4.
Conjugation	Un-conjugated
Alternate Names	R-CAD; Cadherin-4; Retinal cadherin; CAD4; RCAD; R-cadherin

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	130 kDa	

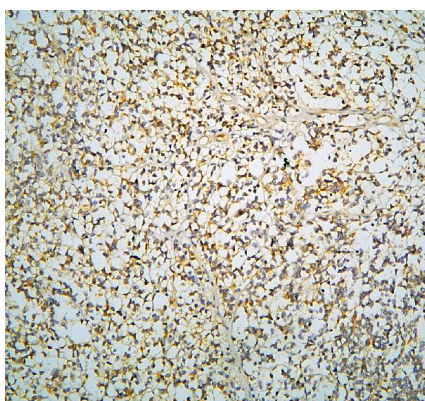
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
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.

Bioinformation

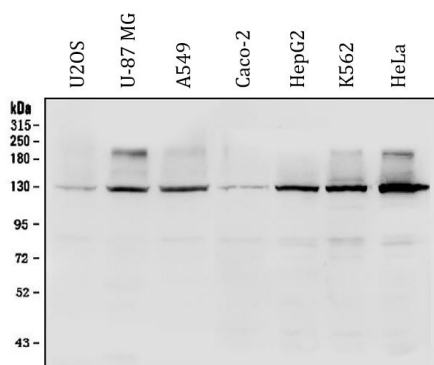
Gene Symbol	CDH4
Gene Full Name	cadherin 4, type 1, R-cadherin (retinal)
Background	This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Based on studies in chicken and mouse, this cadherin is thought to play an important role during brain segmentation and neuronal outgrowth. In addition, a role in kidney and muscle development is indicated. Of particular interest are studies showing stable cis-heterodimers of cadherins 2 and 4 in cotransfected cell lines. Previously thought to interact in an exclusively homophilic manner, this is the first evidence of cadherin heterodimerization. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]
Function	Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. May play an important role in retinal development. [UniProt]
Calculated Mw	100 kDa
Cellular Localization	Cell membrane; Single-pass type I membrane protein. [UniProt]

Images



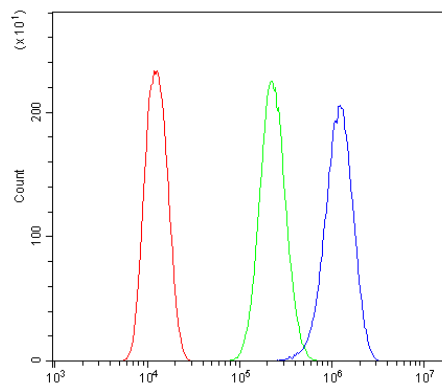
ARG42833 anti-R Cadherin / Cadherin 4 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human glioma tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG42833 anti-R Cadherin / Cadherin 4 antibody at 1 µg/ml dilution, overnight at 4°C.



ARG42833 anti-R Cadherin / Cadherin 4 antibody WB image

Western blot: 50 µg of sample under reducing conditions. U2OS, U-87 MG, A549, Caco-2, HepG2, K562 and HeLa whole cell lysates stained with ARG42833 anti-R Cadherin / Cadherin 4 antibody at 0.5 µg/ml dilution, overnight at 4°C.



ARG42833 anti-R Cadherin / Cadherin 4 antibody FACS image

Flow Cytometry: U2OS cells were blocked with 10% normal goat serum and then stained with ARG42833 anti-R Cadherin / Cadherin 4 antibody (blue) at $1 \mu\text{g}/10^6$ cells for 30 min at 20°C , followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was Rabbit IgG ($1 \mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.