

# ARG58525 anti-alpha 1 Catenin antibody

Package: 100 μl Store at: -20°C

# Summary

Product Description	Rabbit Polyclonal antibody recognizes alpha 1 Catenin
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	lgG
Target Name	alpha 1 Catenin
Species	Human
Immunogen	Synthetic peptide derived from Human alpha 1 Catenin.
Conjugation	Un-conjugated
Alternate Names	Catenin alpha-1; Renal carcinoma antigen NY-REN-13; Cadherin-associated protein; CAP102; Alpha E- catenin

### **Application Instructions**

Application table	Application	Dilution
	FACS	1:50
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	IP	1:50
	WB	1:10000 - 1:20000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	
Observed Size	~ 98 kDa	

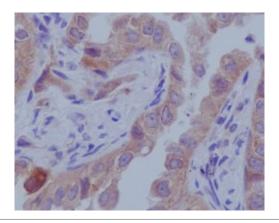
#### Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol

### Bioinformation

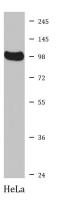
Gene Symbol	CTNNA1
Gene Full Name	catenin (cadherin-associated protein), alpha 1, 102kDa
Function	Associates with the cytoplasmic domain of a variety of cadherins. The association of catenins to cadherins produces a complex which is linked to the actin filament network, and which seems to be of primary importance for cadherins cell-adhesion properties. Can associate with both E- and N-cadherins. Originally believed to be a stable component of E-cadherin/catenin adhesion complexes and to mediate the linkage of cadherins to the actin cytoskeleton at adherens junctions. In contrast, cortical actin was found to be much more dynamic than E-cadherin/catenin complexes and CTNNA1 was shown not to bind to F-actin when assembled in the complex suggesting a different linkage between actin and adherens junctions components. The homodimeric form may regulate actin filament assembly and inhibit actin branching by competing with the Arp2/3 complex for binding to actin filaments. May play a crucial role in cell differentiation. [UniProt]
Calculated Mw	100 kDa
PTM	Sumoylated.
	Phosphorylation seems to contribute to the strength of cell-cell adhesion rather than to the basic capacity for cell-cell adhesion. [UniProt]
Cellular Localization	Cell membrane > Peripheral membrane protein > Cytoplasmic side. [UniProt]

#### Images



#### ARG58525 anti-alpha 1 Catenin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer stained with ARG58525 anti-alpha 1 Catenin antibody.



#### ARG58525 anti-alpha 1 Catenin antibody WB image

Western blot: HeLa cell lysate stained with ARG58525 anti-alpha 1 Catenin antibody.