

**Anti-Catenin alpha 1 CTNNA1 Rabbit Monoclonal Antibody**  
Catalog # ABO14210**Specification****Anti-Catenin alpha 1 CTNNA1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, IP, FC
Primary Accession	<a href="#">P35221</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-Catenin alpha 1 CTNNA1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

**Anti-Catenin alpha 1 CTNNA1 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 1495

**Other Names**

Catenin alpha-1 {ECO:0000312|HGNC:HGNC:2509}, Alpha E-catenin {ECO:0000312|HGNC:HGNC:2509}, Cadherin-associated protein {ECO:0000312|HGNC:HGNC:2509}, Renal carcinoma antigen NY-REN-13, CTNNA1 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=2509" target="\_blank">HGNC:2509</a>)

**Calculated MW**

100071 MW KDa

**Application Details**

WB 1:10000-1:20000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:50

**Subcellular Localization**

Isoform 1: Cytoplasm, cytoskeleton. Cell junction, adherens junction. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell junction. Found at cell-cell boundaries and probably at cell-matrix boundaries.

**Tissue Specificity**

Expressed ubiquitously in normal tissues.

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Catenin alpha 1

**Purification**

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

## **Anti-Catenin alpha 1 CTNNA1 Rabbit Monoclonal Antibody - Protein Information**

**Name** CTNNA1 ([HGNC:2509](#))

### **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. Involved in the regulation of WWTR1/TAZ, YAP1 and TGFBI- dependent SMAD2 and SMAD3 nuclear accumulation (By similarity). May play a crucial role in cell differentiation.

### **Cellular Location**

Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P26231}. Cell junction, adherens junction. Cell membrane {ECO:0000250|UniProtKB:P26231}; Peripheral membrane protein; Cytoplasmic side {ECO:0000250|UniProtKB:P26231}. Cell junction Cytoplasm {ECO:0000250|UniProtKB:Q9PVF8}. Nucleus. Note=Found at cell-cell boundaries and probably at cell-matrix boundaries. {ECO:0000250|UniProtKB:P26231}

### **Tissue Location**

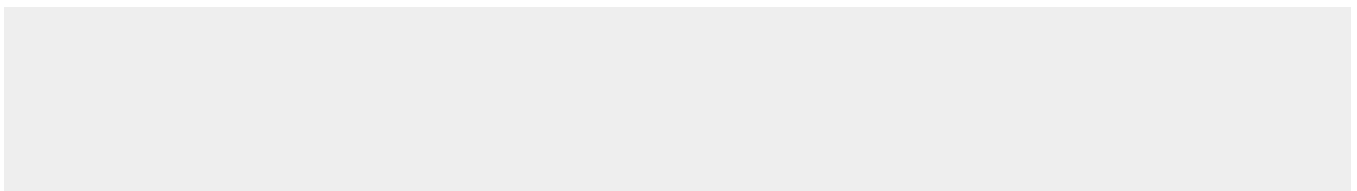
[Isoform 1]: Ubiquitously expressed in normal tissues.

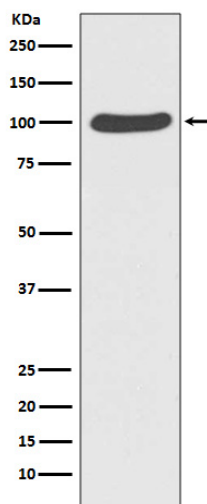
## **Anti-Catenin alpha 1 CTNNA1 Rabbit Monoclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

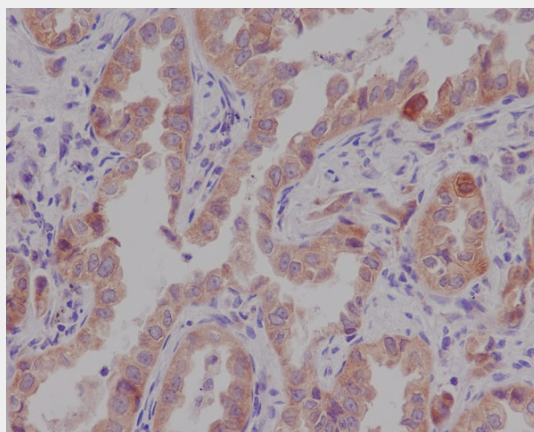
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Anti-Catenin alpha 1 CTNNA1 Rabbit Monoclonal Antibody - Images**





Western blot analysis of Catenin alpha 1 expression in HeLa cell lysate.



Immunohistochemical analysis of paraffin-embedded human lung cancer, using Catenin alpha 1 Antibody.