

**Catenin alpha 1 Antibody**  
**Rabbit mAb**  
**Catalog # AP90650****Specification**

---

**Catenin alpha 1 Antibody - Product Information**

|                                                                                                                                    |                        |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Application                                                                                                                        | WB, IHC, FC, ICC, IP   |
| Primary Accession                                                                                                                  | <a href="#">P35221</a> |
| Reactivity                                                                                                                         | Rat                    |
| Clonality                                                                                                                          | Monoclonal             |
| <b>Other Names</b>                                                                                                                 |                        |
| 102 kDa cadherin-associated protein; Alpha E-catenin; CATNA1; CTN1; Cadherin-associated protein; catenin alpha-1; Catenin alpha 1; |                        |
| Isotype                                                                                                                            | Rabbit IgG             |
| Host                                                                                                                               | Rabbit                 |
| Calculated MW                                                                                                                      | 100071 Da              |

**Catenin alpha 1 Antibody - Additional Information**

|                              |                                                                                                                                                                                                                                                                                                             |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dilution                     | WB~~1:1000<br>IHC~~1:100~500<br>FC~~1:10~50<br>ICC~~N/A<br>IP~~N/A                                                                                                                                                                                                                                          |
| Purification                 | Affinity-chromatography                                                                                                                                                                                                                                                                                     |
| Immunogen                    | A synthesized peptide derived from human Catenin alpha 1                                                                                                                                                                                                                                                    |
| Description                  | Adherens junctions are dynamic structures that form cell-cell contacts and are important in development, differentiation, tissue integrity, morphology and cell polarity. They are composed of the transmembrane proteins, cadherins, which bind cadherins on adjacent cells in a calcium-dependent manner. |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.                                                                                                                           |

**Catenin alpha 1 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 TGFB1- 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

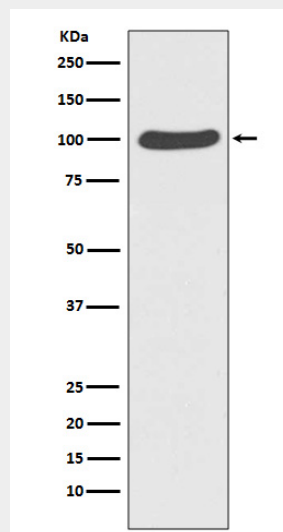
[Isoform 1]: Ubiquitously expressed in normal tissues.

### Catenin alpha 1 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](#)

### Catenin alpha 1 Antibody - Images



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