

CTNNA1 Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS13431**Specification**

CTNNA1 Antibody (Internal) - Product Information

Application	IHC
Primary Accession	P35221
Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Chicken, Horse, Xenopus, Bovine, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	100kDa KDa

CTNNA1 Antibody (Internal) - Additional Information**Gene ID** 1495**Other Names**

Catenin alpha-1, Alpha E-catenin, Cadherin-associated protein, Renal carcinoma antigen NY-REN-13, CTNNA1

Target/Specificity

Human CTNNA1.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

CTNNA1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

CTNNA1 Antibody (Internal) - Protein Information**Name** CTNNA1**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

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

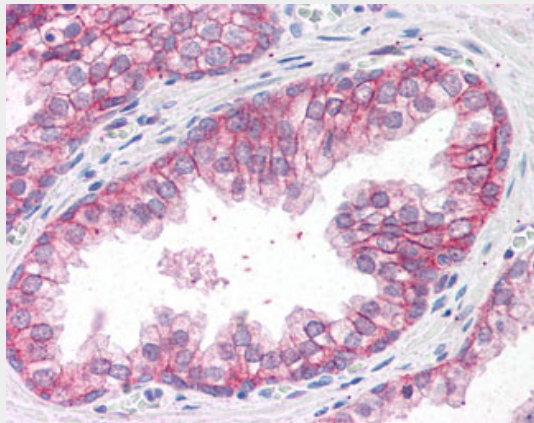
Tissue Location

Expressed ubiquitously in normal tissues.

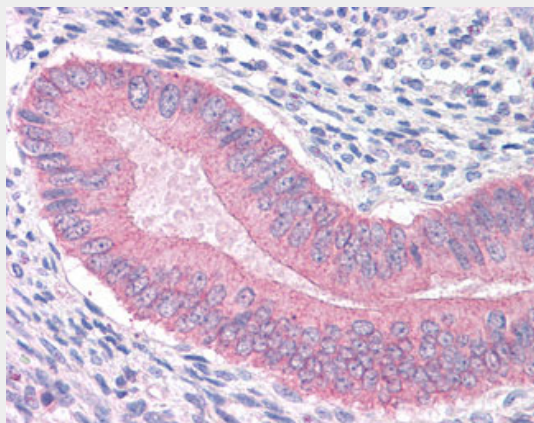
CTNNA1 Antibody (Internal) - Protocols

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](#)

CTNNA1 Antibody (Internal) - Images

Anti-CTNNA1 antibody IHC of human prostate.



Anti-CTNNA1 antibody IHC of human uterus.

CTNNA1 Antibody (Internal) - Background

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.

CTNNA1 Antibody (Internal) - References

Furukawa Y.,et al.Cytogenet. Cell Genet. 65:74-78(1994).
Oda T.,et al.Biochem. Biophys. Res. Commun. 193:897-904(1993).
Rimm D.L.,et al.Biochem. Biophys. Res. Commun. 203:1691-1699(1994).
Kask M.,et al.Biochem. Biophys. Res. Commun. 411:56-61(2011).
Nollet F.H.,et al.Submitted (OCT-1998) to the EMBL/GenBank/DDBJ databases.