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CTNA1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6582A

Specification

CTNA1 Antibody (N-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P35221
Other Accession	Q59I72, P26231, Q3MHM6
Reactivity	**Human, Mouse**
Predicted	**Bovine, Rabbit**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**100071**
Antigen Region	**30-59**

CTNA1 Antibody (N-term) - 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
This CTNA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 30-59 amino acids from the N-terminal region of human CTNA1.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CTNA1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CTNA1 Antibody (N-term) - 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.

CTNA1 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CTNA1 Antibody (N-term) - Images

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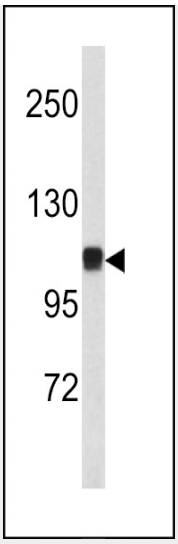
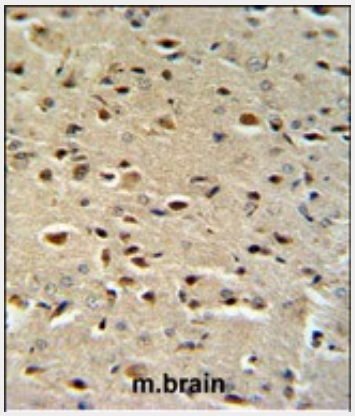
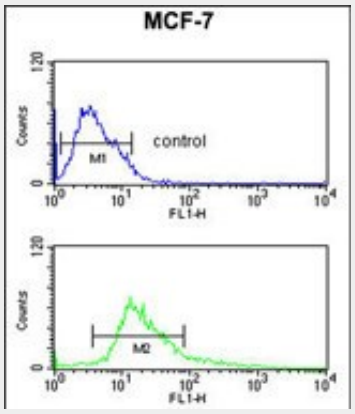


Western blot analysis of CTNA1 antibody (N-term) (Cat. #AP6582a) in mouse bladder tissue lysates (35ug/lane). CTNA1 (arrow) was detected using the purified Pab.



CTNA1 Antibody (N-term) (Cat. #AP6582a) IHC analysis in formalin fixed and paraffin embedded mouse brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CTNA1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



CTNA1 Antibody (N-term) (Cat. #AP6582a) flow cytometric analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CTNA1 Antibody (N-term) - Background

CTNA1 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. The protein may play a crucial role in cell differentiation.

CTNA1 Antibody (N-term) - References

Inge,L.J., Mol. Cancer Ther. 7 (6), 1386-1397 (2008)
Merdek,K.D., Biochem. Biophys. Res. Commun. 366 (3), 717-723 (2008)