

CTNA1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6582a**Specification****CTNA1 Antibody (N-term) Blocking Peptide -
Product Information**Primary Accession [P35221](#)**CTNA1 Antibody (N-term) Blocking Peptide -
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**

The synthetic peptide sequence used to generate the antibody [AP6582a](/products/AP6582a) was selected from the N-term region of human CTNA1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CTNA1 Antibody (N-term) Blocking Peptide -
Protein Information****Name** CTNNA1**CTNA1 Antibody (N-term) Blocking
Peptide - 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) Blocking
Peptide - References**

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

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.

CTNA1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)