

Anti-Catenin alpha 1 CTNNA1 Rabbit Monoclonal Antibody

Catalog # ABO14210

Product Information

Application	WB, IHC, IF, ICC, IP, FC
Primary Accession	P35221
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.

Additional Information

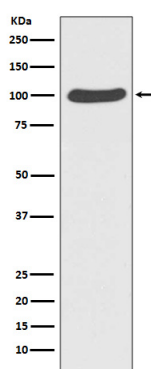
Gene ID	1495
Other Names	Catenin alpha-1 {ECO:0000312 HGNC:HGNC:2509}, Alpha E-catenin {ECO:0000312 HGNC:HGNC:2509}, Cadherin-associated protein {ECO:0000312 HGNC:HGNC:2509}, Renal carcinoma antigen NY-REN-13, CTNNA1 (HGNC:2509)
Calculated MW	100071
Application Details	WB 1:10000-1:20000 IHC 1:50-1:200 ICC/IF 1:50-1:200 IP 1:50 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.
Source	Eukaryota
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.
Clone Names	Clone: FBO-3
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.

Protein Information

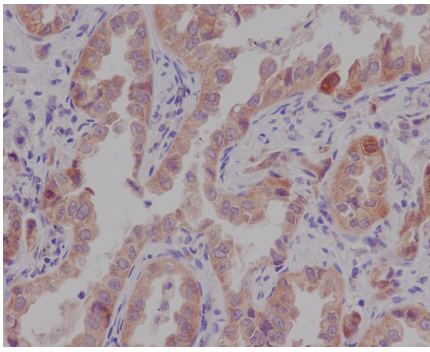
Name	CTNNA1 (HGNC:2509)
Function	Associates with the cytoplasmic domain of a variety of cadherins. The association of catenins to cadherins produces a complex which is linked to the actin filament network, and which seems to be of primary importance for cadherins cell-adhesion properties (PubMed: 40983751). 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.

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.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.