

Rabbit Catenin alpha1 Polyclonal Antibody | anti-CTNNA1 antibody

Catenin alpha1 Antibody

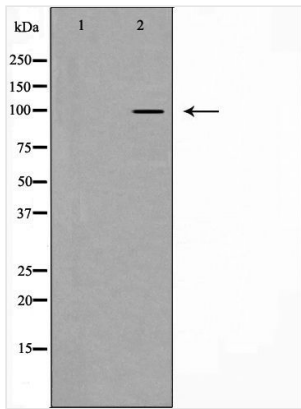
CATALOG # AAA31080	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot, ELISA
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PRODUCT SYNONYMS

Catenin alpha1; Polyclonal Antibody; Catenin alpha1 Antibody; Alpha E-catenin; Cadherin associated protein 102kDa; Cadherin associated protein; Cadherin-associated protein; CAP 102; CAP102; Catenin (cadherin associated protein) alpha 1 102kDa; Catenin (cadherin associated protein); alpha 1; 102kDa; Catenin alpha 1; Catenin alpha-1; CTNA1_HUMAN; CTNNA 1; Ctnna1; FLJ36832; FLJ52416; MDPT2; NY REN 13 antigen; OTTHUMP00000224141; OTTHUMP00000224147; Renal carcinoma antigen NY REN 13; Renal carcinoma antigen NY-REN-13; anti-CTNNA1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Catenin alpha1 antibody detects endogenous levels of total Catenin alpha1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	841
Applicable Applications for anti-CTNNA1 antibody	WB (Western Blot), ELISA
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:200
Immunogen	A synthesized peptide derived from human Catenin alpha1
Subcellular Location	Cell Membrane and Cytoplasm > Cytoskeleton. Cell Junction > Adherens Junction. Cell Membrane. Cell Junction. Found at cell-cell boundaries and probably at cell-matrix boundaries.
Tissue Specificity	Expressed ubiquitously in normal tissues.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



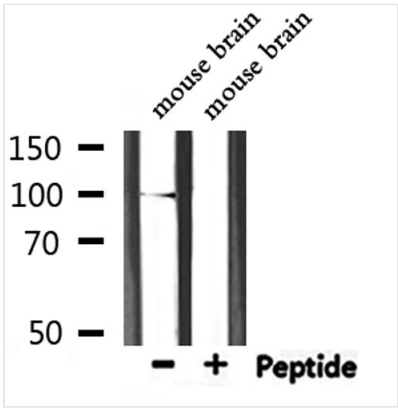
WB (Western Blot)

Western blot analysis of Catenin 1 Antibody expression in MCF-7 cells lysates. The lane on the left is treated with the antigen-specific peptide. The lane on the right is treated with the antigen-specific peptide.



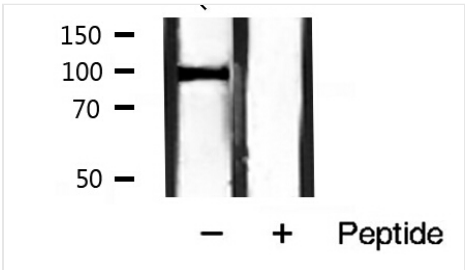
IHC (Immunohistochemistry)

Catenin alpha1 Antibody for IHC in human gallbladder tissue.



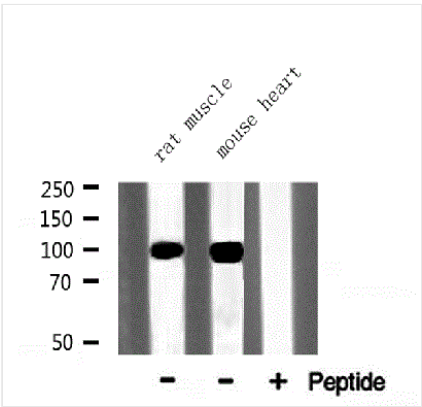
WB (Western Blot)

Western blot analysis of extracts from mouse brain, using Catenin alpha1 Antibody.



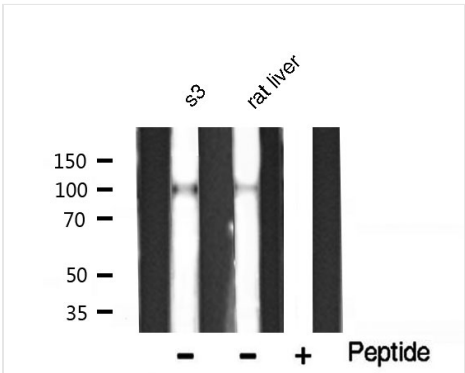
WB (Western Blot)

Western blot analysis of Catenin alpha1 expression in mouse muscle tissue lysates, The lane on the right is treated with the antigen-specific peptide.



WB (Western Blot)

Western blot analysis of Catenin alpha1 expression in various lysates



WB (Western Blot)

Western blot analysis of Catenin alpha1 expression in S3/rat liver tissue lysates, The lane on the right is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CTNNA1 antibody	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. May play a crucial role in cell differentiation. Subunit Structure: Monomer and homodimer; the monomer preferentially binds to CTNNB1 and the homodimer to actin. Binds AFDN and F-actin. Possible component of an E-cadherin/catenin adhesion complex together with E-cadherin/CDH1 and beta-catenin/CTNNB1 or gamma-catenin/JUP; the complex is located to adherens junctions. The stable association of CTNNA1 is controversial as CTNNA1 was shown not to bind to F-actin when assembled in the complex. Alternatively, the CTNNA1-containing complex may be linked to F-actin by other proteins such as LIMA1. Interacts with ARHGAP21 and with AJUBA. Interacts with LIMA1 (By similarity). Interacts with vinculin/VCL (PubMed:26691986). Post-translational Modifications: Sumoylated. Phosphorylation seems to contribute to the strength of cell-cell adhesion rather than to the basic capacity for cell-cell adhesion. Similarity: Belongs to the vinculin/alpha-catenin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	594140506
NCBI GeneID	1495
NCBI Accession #	NP_001277236.1
NCBI GenBank Nucleotide #	NM_001290307.2
UniProt Accession #	P35221; Q12795; Q8N1C0
Molecular Weight	Observed: 100 kDa Predicted: 101 kDa
NCBI Official Full Name	catenin alpha-1 isoform 2
NCBI Official Synonym Full Names	catenin alpha 1
NCBI Official Symbol	CTNNA1
NCBI Official Synonym Symbols	MDPT2; CAP102
NCBI Protein Information	catenin alpha-1
UniProt Protein Name	Catenin alpha-1
UniProt Gene Name	CTNNA1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/catenin-alpha1-antibody-western-blot-elisa/31080>