

KD-Validated Anti-Catenin delta 1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1161**Specification****KD-Validated Anti-Catenin delta 1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	O60716
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 108 kDa, observed, 105kDa KDa
Gene Name	CTNND1
Aliases	CTNND1; Catenin Delta 1; KIAA0384; P120; Catenin (Cadherin-Associated Protein), Delta 1; Cadherin-Associated Src Substrate; Catenin Delta-1; P120 Catenin; P120CAS; P120CTN; CTNND; CAS; P120(CAS); P120(CTN); P120(Ctn); P120(Cas); P120cas; P120ctn; BCDS2
Immunogen	A synthesized peptide derived from human delta 1 Catenin/p120 Catenin

KD-Validated Anti-Catenin delta 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	1500
Other Names	
Catenin delta-1, Cadherin-associated Src substrate, CAS, p120 catenin, p120(ctn), p120(cas), CTNND1 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=2515 HGNC:2515), KIAA0384	

KD-Validated Anti-Catenin delta 1 Rabbit Monoclonal Antibody - Protein Information**Name** CTNND1 ([HGNC:2515](#))**Synonyms** KIAA0384**Function**

Key regulator of cell-cell adhesion that associates with and regulates the cell adhesion properties of both C-, E- and N-cadherins, being critical for their surface stability (PubMed:[14610055](http://www.uniprot.org/citations/14610055), PubMed:[20371349](http://www.uniprot.org/citations/20371349)). Promotes localization and retention of DSG3 at cell-cell junctions, via its interaction with DSG3 (PubMed:[18343367](http://www.uniprot.org/citations/18343367)). Beside cell-cell adhesion, regulates gene transcription through several transcription factors including ZBTB33/Kaiso2 and GLIS2, and the activity of Rho family GTPases and downstream cytoskeletal dynamics (PubMed:[10207085](http://www.uniprot.org/citations/10207085))

target="_blank">10207085, PubMed:20371349). Implicated both in cell transformation by SRC and in ligand-induced receptor signaling through the EGF, PDGF, CSF-1 and ERBB2 receptors (PubMed:17344476).

Cellular Location

Cell junction, adherens junction. Cytoplasm. Nucleus. Cell membrane. Cell junction.
Note=Interaction with GLIS2 promotes nuclear translocation (By similarity). Detected at cell-cell contacts (PubMed:15240885, PubMed:17047063). NANOS1 induces its translocation from sites of cell-cell contact to the cytoplasm (PubMed:17047063). CDH1 enhances cell membrane localization (PubMed:15240885). Localizes to cell-cell contacts as keratinocyte differentiation progresses (By similarity) {ECO:0000250|UniProtKB:P30999, ECO:0000269|PubMed:11896187, ECO:0000269|PubMed:15240885, ECO:0000269|PubMed:17047063} [Isoform 2A]: Nucleus [Isoform 4A]: Cytoplasm

Tissue Location

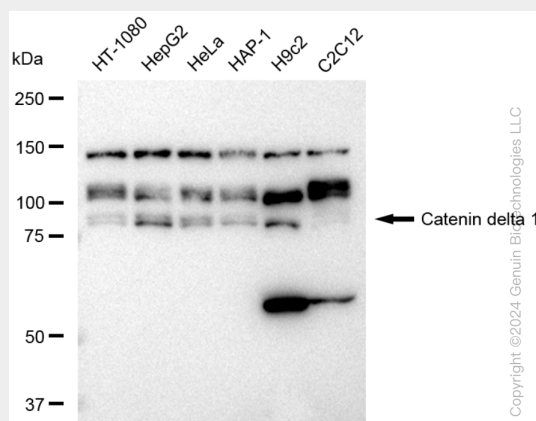
Expressed in vascular endothelium. Melanocytes and melanoma cells primarily express the long isoform 1A, whereas keratinocytes express shorter isoforms, especially 3A. The shortest isoform 4A, is detected in normal keratinocytes and melanocytes, and generally lost from cells derived from squamous cell carcinomas or melanomas. The C-terminal alternatively spliced exon B is present in the p120ctn transcripts in the colon, intestine and prostate, but lost in several tumor tissues derived from these organs

KD-Validated Anti-Catenin delta 1 Rabbit Monoclonal Antibody - Protocols

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

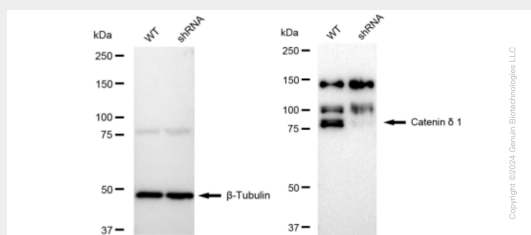
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Catenin delta 1 Rabbit Monoclonal Antibody - Images

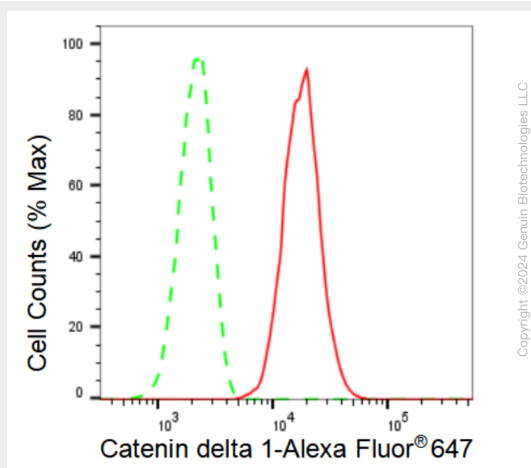


Western blotting analysis using anti-Catenin delta 1 antibody (Cat#AGI1161). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated

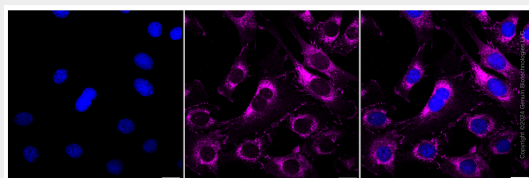
with anti-Catenin delta 1 antibody (Cat#AGI1161, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Catenin delta 1 antibody (Cat#AGI1161). Catenin delta 1 expression in wild type (WT) and Catenin delta 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Catenin delta 1 antibody (Cat#AGI1161, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Catenin delta 1 expression in C2C12 cells using Catenin delta 1 antibody (Cat#AGI1161, 1:2,000). Green, isotype control; red, Catenin delta 1.



Immunocytochemical staining of C2C12 cells with Catenin delta 1 antibody (Cat#AGI1161, 1:1,000). Nuclei were stained blue with DAPI; Catenin delta 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.