

KD-Validated Anti-Catenin Delta 1 Mouse Monoclonal Antibody
Mouse monoclonal antibody
Catalog # AGI1917**Specification****KD-Validated Anti-Catenin Delta 1 Mouse Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	O60716
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	Predicted, 108 kDa, Observed, 108 kDa
Gene Name	KDa
Aliases	CTNND1
	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	Recombinant protein of human CTNND1

KD-Validated Anti-Catenin Delta 1 Mouse 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 target="_blank">HGNC:2515), KIAA0384

KD-Validated Anti-Catenin Delta 1 Mouse 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, PubMed:20371349). Promotes localization and retention of DSG3 at cell- cell junctions, via its interaction with DSG3 (PubMed: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, PubMed:20371349).

target="_blank">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

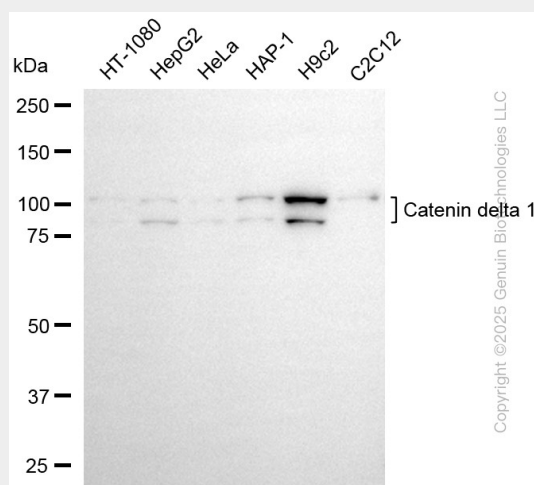
Expressed in vascular endothelium. Melanocytes and melanoma cells primarily express the long isoform 1A, whereas keratinocytes express shorter isoforms, especially 3A. The shortest isoform 4A, is detected in normal keratinocytes and melanocytes, and generally lost from cells derived from squamous cell 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 Mouse Monoclonal Antibody - Protocols

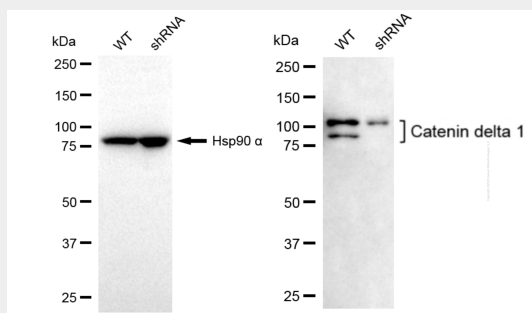
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-Catenin Delta 1 Mouse Monoclonal Antibody - Images



with anti-catenin delta 1 antibody (Cat#AGI1917, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-catenin delta 1 antibody (Cat#AGI1917). Catenin delta 1 expression in wild type (WT) and catenin delta 1 (CTNND1) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-catenin delta 1 antibody (Cat#AGI1917, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.