



# Catenin $\delta$ -1 Rabbit mAb

<b>Catalog No</b>	YP-rAb-17879
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human,Mouse,Rat
<b>Applications</b>	WB,IHC,IF,IP,ELISA
<b>Gene Name</b>	CTNND1 KIAA0384
<b>Protein Name</b>	Cadherin associated Src substrate;Cadherin-associated Src substrate;CAS;Catenin (cadherin associated protein) delta 1;Catenin delta 1;Catenin delta;Catenin delta-1;CTND1_HUMAN;CTNND1;CTNND;CTNND1;delta 1 Catenin;KIAA0384;p120;P120 CAS;p120 catenin;P120 CTN;p120(cas);p120(ctn);P120CAS;P120CTN
<b>Purification Process</b>	Protein A
<b>Specificity</b>	Endogenous
<b>Formulation</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source</b>	Monoclonal, Rabbit,IgG
<b>Dilution</b>	IHC 1:200-1:1000; WB 1:1000-1:5000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
<b>Concentration</b>	0.5 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-15° C to -25° C/1 year(Do not lower than -25° C)
<b>Synonyms</b>	Cadherin associated Src substrate ; Cadherin-associated Src substrate ; CAS ; Catenin ; cadherin associated protein ; delta 1 ; Catenin delta 1 ; Catenin delta ; Catenin delta-1 ; CTND1_HUMAN ; CTNND 1 ; CTNND ; CTNND1 ; delta 1 Catenin ; KIAA0384 ; p120 ; P120 CAS ; p120 catenin ; P120 CTN ; p120 ; cas ; p120 ; ctn ; P120CAS ; P120CTN
<b>Observed Band</b>	108kD
<b>Calculated Molecular Weight</b>	108kD
<b>Cell Pathway</b>	Membrane
<b>Tissue Specificity</b>	Breast/ Tonsil
<b>Function</b>	Alternative products:Experimental confirmation may be lacking for some isoforms,Disease:May contribute to cell malignancy. Complete loss of expression was observed in approximately 10% of invasive ductal breast carcinomas investigated.,Domain:A possible nuclear localization signal exists in all isoforms where Asp-626--631-Arg are deleted.,Function:Binds to and inhibits the

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transcriptional repressor ZBTB33, which may lead to activation of target genes of the Wnt signaling pathway (By similarity). May associate with and regulate the cell adhesion properties of both C- and E-cadherins. Implicated both in cell transformation by SRC and in ligand-induced receptor signaling through the EGF, PDGF, CSF-1 and ERBB2 receptors. Promotes GLIS2 C-terminal cleavage.,induction:Induced in vascular endothelium by wounding. This effect is potentiated by prior laminar shear stress, which enhances wound closure.,PTM:Phosphorylated.,similarity:Belongs to the beta-catenin family.,similarity:Contains 10 ARM repeats.,subcellular location:Interaction with GLIS2 promotes nuclear translocation.,subunit:Belongs to a multiprotein cell-cell adhesion complex that also contains E-cadherin, alpha-catenin, beta-catenin, and gamma-catenin. Binds to the C-terminal fragment of PSEN1 and mutually competes for E-cadherin. Interacts with ZBTB33. Interacts with GLIS2.,tissue specificity:Expressed in vascular endothelium.,

### Background

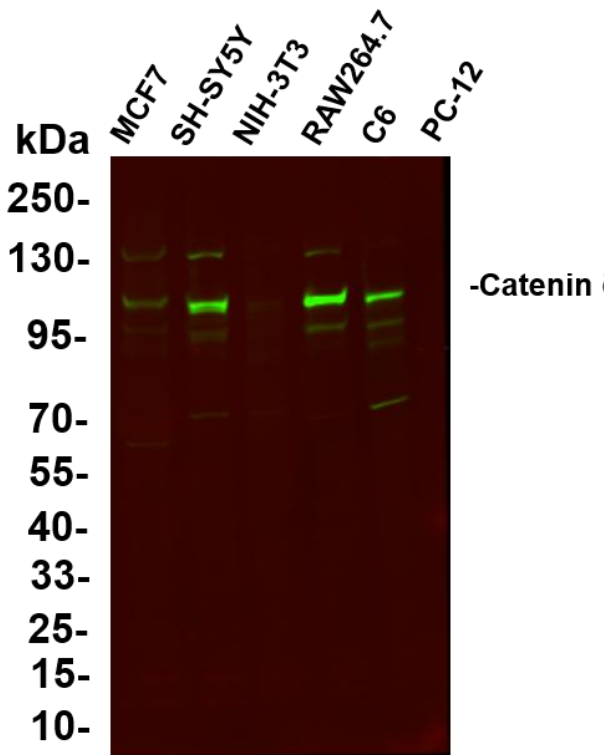
catenin delta 1(CTNND1) Homo sapiens This gene encodes a member of the Armadillo protein family, which function in adhesion between cells and signal transduction. Multiple translation initiation codons and alternative splicing result in many different isoforms being translated. Not all of the full-length natures of the described transcript variants have been determined. Read-through transcription also exists between this gene and the neighboring upstream thioredoxin-related transmembrane protein 2 (TMX2) gene. [provided by RefSeq, Dec 2010],

### matters needing attention

Avoid repeated freezing and thawing!

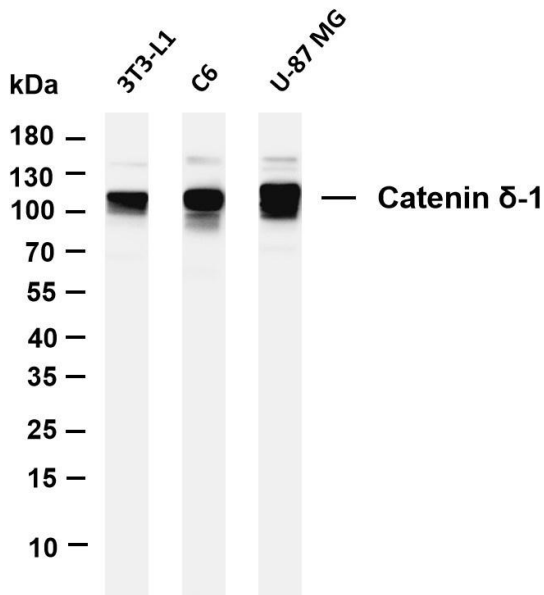
### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

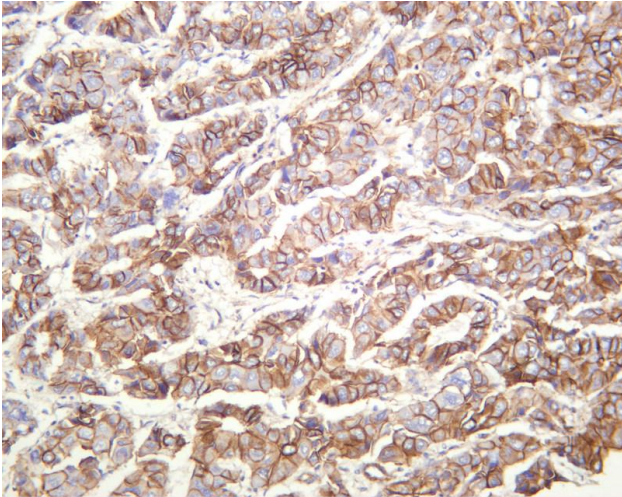


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:5000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody

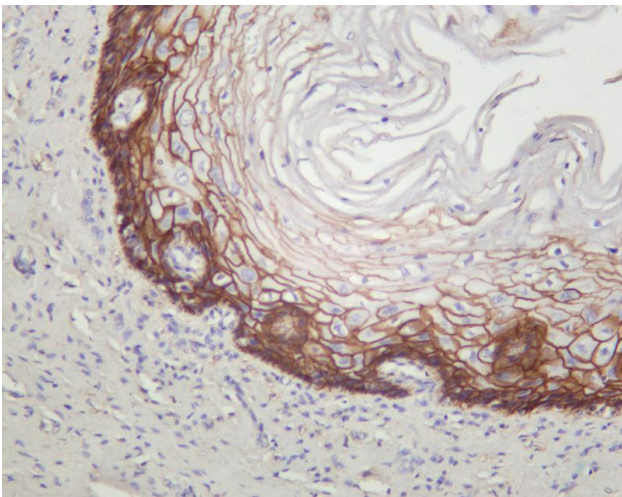




Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Catenin  $\delta$ -1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: 3T3-L1 Lane 2: C6 Lane 3: U-87 MG  
Predicted band size: 108kDa Observed band size: 108kDa

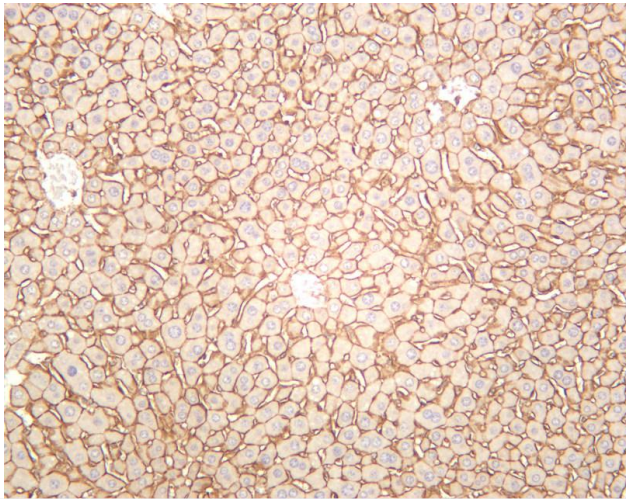


Human cervical squamous carcinoma was stained with anti-Catenin  $\delta$ -1 rabbit antibody



Human hepatocellular carcinoma was stained with anti-Catenin  $\delta$ -1 rabbit antibody





Mouse liver was stained with anti-Catenin  $\delta$ -1 rabbit antibody

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