

Catenin δ -1 (Phospho Ser320) Rabbit pAb

CatalogNo: YP1288

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 108kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:1000-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho peptide around human Catenin δ -1 (Ser320)

Specificity This antibody detects endogenous levels of Human Catenin δ -1 (phospho-Ser320)

Target Information

Gene name CTNND1 KIAA0384

Protein Name

Catenin 6-1 (Ser320)

Organism**Gene ID****UniProt ID**

Human

[1500;](#)[O60716;](#)

Mouse

[12388;](#)[P30999;](#)**Cellular Localization**

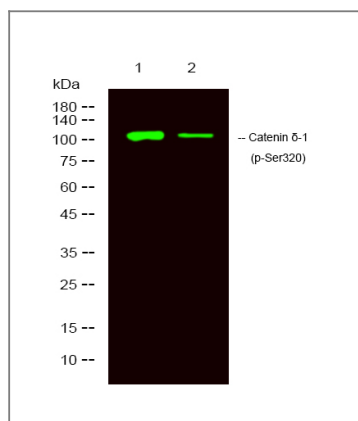
Cell junction , adherens junction . Cytoplasm . Nucleus . Cell membrane . Interaction with GLIS2 promotes nuclear translocation (By similarity) . Detected at cell-cell contacts (PubMed:15240885 , PubMed:17047063) . NANOS1 induces its translocation from sites of cell-cell contact to the cytoplasm (PubMed:17047063) . CDH1 enhances cell membrane localization (PubMed:15240885) . Isoforms 4A and 1AB are excluded from the nucleus (PubMed:11896187) . .; [Isoform 1A]: Nucleus .; [Isoform 2A]: Nucleus .; [Isoform 3A]: Nucleus .

Tissue specificity

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.

Function

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 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. ,

Validation Data

Western Blot analysis of HEK293,mouse-brain,using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

Contact information

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**Catenin δ -1
(Phospho Ser320)
Rabbit pAb**

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