

p120 (Phospho Tyr228) Rabbit pAb

CatalogNo: YP0919

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

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 1:500-1:2000

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:10000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human Catenin-delta1 around the phosphorylation site of Tyr228. AA range:201-250

Specificity

Phospho-p120 (Y228) Polyclonal Antibody detects endogenous levels of p120 protein only when phosphorylated at Y228. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):DNYGS

Target Information

Gene name CTNND1

Protein Name Catenin delta-1

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 .

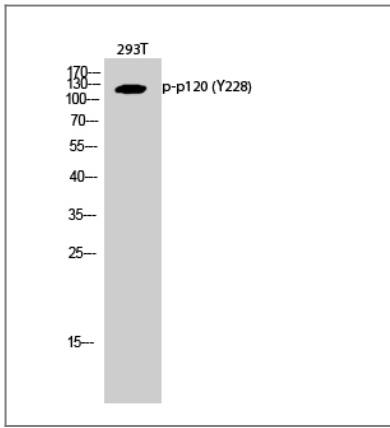
Tissue specificity

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.

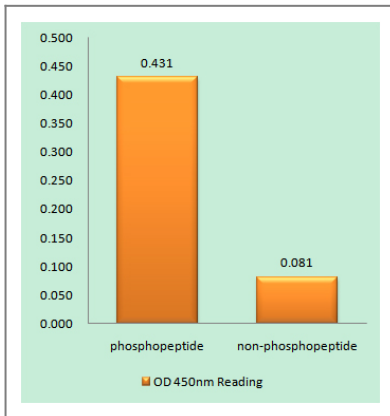
Function

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. ,

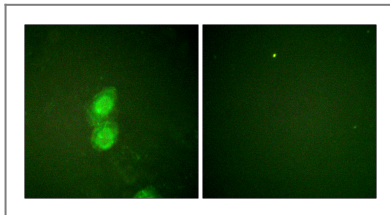
Validation Data



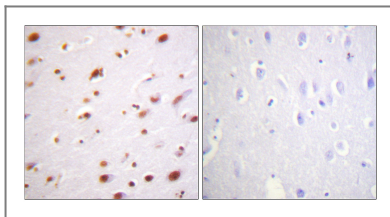
Western Blot analysis of 293T cells using Phospho-p120 (Y228) Polyclonal Antibody diluted at 1:500



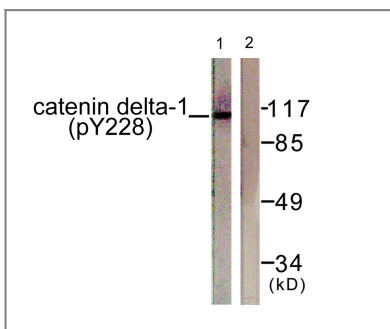
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Catenin-delta1 (Phospho-Tyr228) Antibody



Immunofluorescence analysis of HUVEC cells, using Catenin-delta1 (Phospho-Tyr228) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using Catenin-delta1 (Phospho-Tyr228) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HUVEC cells, using Catenin-delta1 (Phospho-Tyr228) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
p120 (Phospho Tyr228) Rabbit pAb

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