

For Research Use Only

p120 Catenin Polyclonal antibody

Catalog Number: 12180-1-AP

Featured Product

15 Publications



Basic Information

Catalog Number:

12180-1-AP

Size:

233 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2824

GenBank Accession Number:

BC010501

GeneID (NCBI):

1500

UNIPROT ID:

O60716

Full Name:

catenin (cadherin-associated protein), delta 1

Calculated MW:

948 aa, 105 kDa

Observed MW:

90-120 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:10-1:100

Applications

Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, canine

Positive Controls:

WB: human brain tissue, HeLa cells, HEK-293 cells, mouse brain tissue, NIH/3T3 cells, RAW264.7 cells

IP: mouse brain tissue,

IHC: human breast cancer tissue, human colon cancer tissue

IF: HepG2 cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Catenins were discovered as proteins that are linked to the cytoplasmic domain of transmembrane cadherins (PMID: 9653641). p120 catenin, also called p120 ctn or catenin delta-1, regulates cell-cell adhesion through its interaction with the cytoplasmic tail of classical and type II cadherins. p120 catenin is a tyrosine kinase substrate implicated in cell transformation by SRC, as well as in ligand-induced receptor signaling through the EGF receptor, the PDGF receptor, and the CSF1 receptor. Different expression patterns of p120 catenin in lobular and ductal carcinomas of breast have been reported: membrane stain for ductal carcinoma and cytoplasmic stain for lobular carcinoma (PMID: 24966968). Different isoforms of p120 catenin are variably expressed in different tissues as a result of alternative splicing and the use of multiple translation initiation codons (PMID: 19150613).

Notable Publications

Author	Pubmed ID	Journal	Application
Mengying Wei	33099085	EBioMedicine	WB
FengLin Wang	35339012	Biochem Biophys Res Commun	WB
Renkan Zhang	35330841	Front Pharmacol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

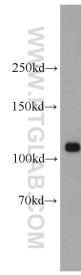
T: 4006900926

E: Proteintech-CN@ptglab.com

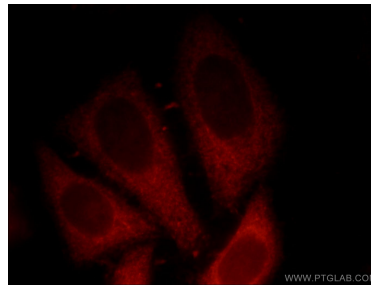
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

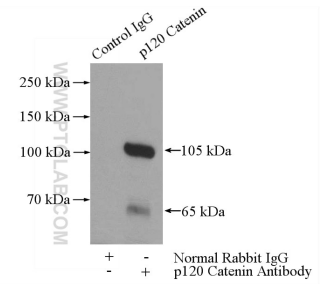
Selected Validation Data



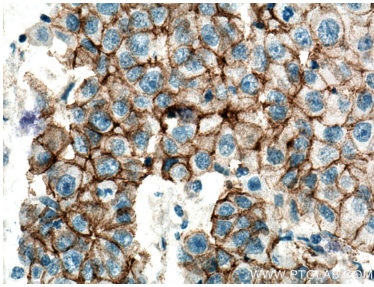
human brain tissue were subjected to SDS PAGE followed by western blot with 12180-1-AP (p120 Catenin antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



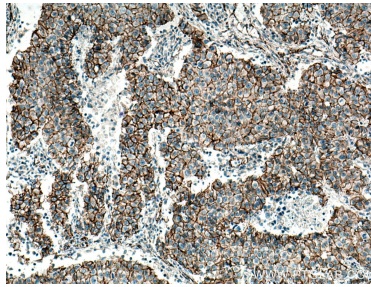
Immunofluorescent analysis of HepG2 cells, using CTNND1 antibody 12180-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-p120 Catenin (IP:12180-1-AP, 4ug; Detection:12180-1-AP 1:500) with mouse brain tissue lysate 2640ug.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 12180-1-AP (p120 Catenin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 12180-1-AP (p120 Catenin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).