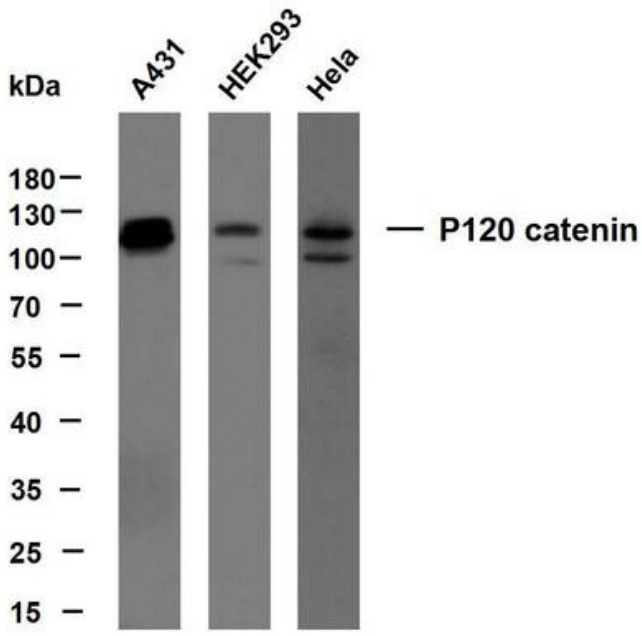
p120 catenin (ABT-p120) Mouse mAb

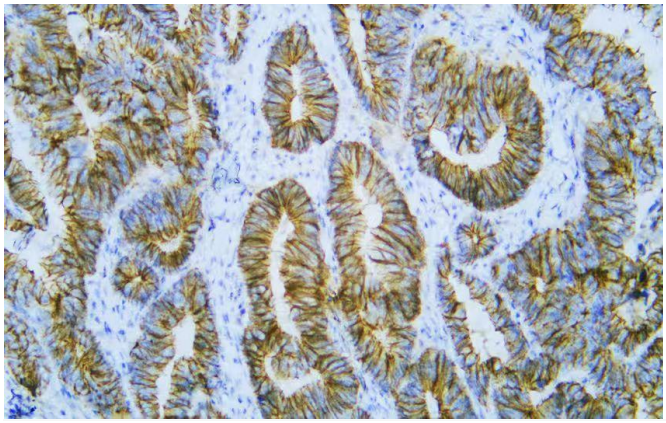
Catalog No	YP-Ab-19484
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	IHC、WB、IF、ELISA
Gene Name	CTNND1 KIAA0384
Immunogen	Synthesized peptide derived from human p120 catenin AA range: 600-700
Specificity	The antibody can specifically recognize human p120 catenin protein. In western blotting of Hela, A431 and HEK293 cell lysates, the antibody can label a band with molecular weight around 100~110 kDa.
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal,Mouse,IgG
Purification	Recombinant Antibody expressed in animal component-free (ACF) media, purified via Protein G affinity chromatography.
Dilution	IHC 1:200-1000; WB 1:500-2000; IF 1:100-500; ELISA 1:1000-5000 Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0 (Cat#YS0004)
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-15°C to -25°C/1 year(Do not lower than -25°C)
Synonyms	CTNND1 KIAA0384;p120 catenin;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
Observed Band	110kD
Calculated Molecular Weight	108kD
Cell Pathway	Cytoplasmic , Membranous
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. ,
Background	α- Catenin; β- Catenin; γ- catenin and p120 catenin are members of the connexin family and mediate intercellular adhesion together with E-cadherin. P120 catenin binds to the near membrane region of E-cadherin to form a complex , which is stable and closely linked. In lobular breast cancer , E-cadherin deficiency resulted in the accumulation of p120 catenin in the cytoplasm , while in ductal breast cancer , p120 catenin in the membrane decreased and there was no accumulation of p120 catenin in the cytoplasm. Therefore , it can be used to distinguish lobular carcinoma from ductal carcinoma. Studies have shown that p120 catenin in the cytoplasm of gastric and colon cancer is related to poor adhesion of cancer cells.
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.

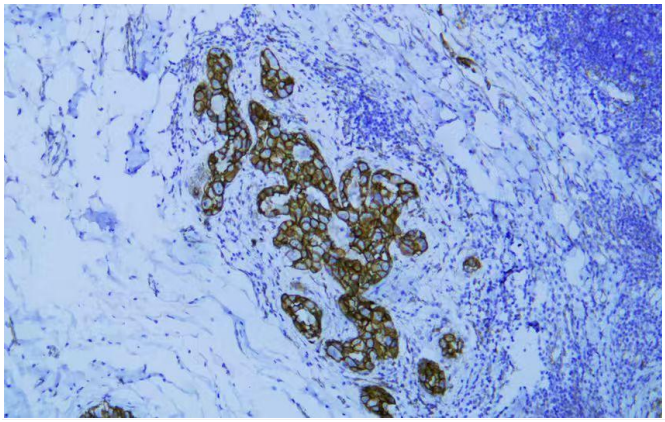
Products Images



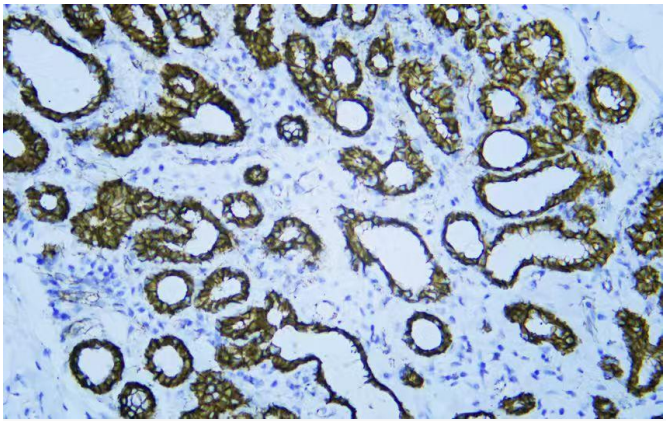
Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-p120 catenin (ABT-p120) antibody. The HRP-conjugated anti-Mouse IgG antibody was used to detect the antibody. Lane 1: A431 Lane 2: HEK293 Lane 3: Hela



Human colon carcinoma tissue was stained with Anti-p120 catenin (ABT-p120) Antibody



Human ductal carcinoma of breast tissue was stained with Anti-p120 catenin (ABT-p120) Antibody



Human ductal carcinoma of breast tissue was stained with Anti-p120 catenin (ABT-p120) Antibody