

Mouse delta1-Catenin Monoclonal Antibody | anti-CTNND1 antibody

delta1-Catenin (Tyr-228), phospho-specific Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71595	Mouse	Human, Rat, Mouse	Immunocytochemistry, ELISA, Western Blot

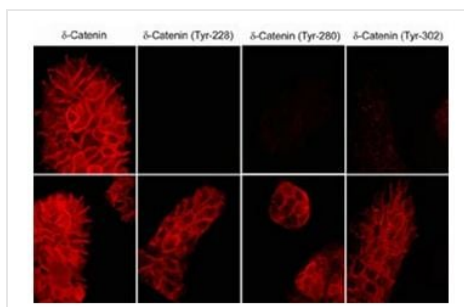
PRODUCT SYNONYMS

delta1-Catenin; Monoclonal Antibody; delta1-Catenin (Tyr-228); phospho-specific Antibody; phospho-specific; Catenin 4 228; anti-CTNND1 antibody

PRODUCT SPECIFICATIONS

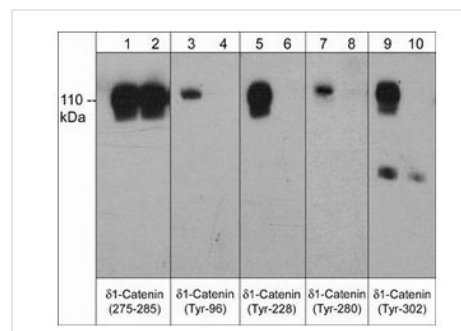
Host	Mouse
Reactivity	Human, Rat, Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M356
Specificity	The antibody detects a 110kDa* protein corresponding to the molecular mass of delta1-Catenin on SDS-PAGE immunoblots of human A431 and HUVEC cells treated with pervanadate. This antibody does not detect this band after alkaline phosphatase treatment.
Purity/Purification	Protein A chromatography
Form/Format	Mouse monoclonal antibody purified with protein A chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-CTNND1 antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone M356 was generated from a phospho-delta1-Catenin (Tyr-228) synthetic peptide containing amino acid residues around tyrosine 228 of human delta1-Catenin. This peptide sequence is highly conserved in rat and mouse delta1-Catenin.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of delta1-Catenin in untreated (Top) or pervanadate-treated (bottom) A431 cells. The cells were labeled with mouse monoclonal delta1-Catenin (a.a. 275-285), delta1-Catenin (Tyr-228), delta1-Catenin (Tyr-280), or delta1-Catenin (Tyr-302) antibodies. The antibodies were detected using donkey anti-mouse secondary antibodies conjugated to Cy3.



WB (Western Blot)

Western blot analysis of delta1-Catenin phosphorylation in A431 cells stimulated with pervanadate (1mM) for 30 min. (lanes 1,3,5,7,9). The blot was then treated with alkaline phosphatase (lanes 2,4,6,8,10). Blots were probed with anti-delta1-Catenin (a.a. 275-285) (lanes 1 & 2), anti-delta1-Catenin (Tyr-96) (lanes 3 & 4), anti-delta1-Catenin (Tyr-228) (lanes 5 & 6), anti-delta1-Catenin (Tyr-280) (lanes 7 & 8) or anti-delta1-Catenin (Tyr-302) (lanes 9 & 10).

ADDITIONAL INFORMATION

Related Product Information for anti-CTNND1 antibody	Catenins have emerged as molecular sensors that integrate cell-cell junctions and cytoskeletal dynamics with signaling pathways that control morphogenesis and cell to cell communication. delta1-Catenin (p120 catenin) is a catenin family member which contains an N-terminal coiled-coil domain, a regulatory domain containing multiple phosphorylation sites, and a central Armadillo repeat domain. delta1-Catenin regulates E-cadherin turnover, and has both positive and negative effects on cadherin-mediated adhesion. Actin dynamics are also regulated by delta1-Catenin, which can modulate RhoA, Rac and cdc42 activity. delta1-Catenin is phosphorylated at multiple tyrosine, serine and threonine sites both in vitro and in vivo. High levels of delta1-Catenin phosphorylated at Tyr-228 are commonly seen in several carcinoma cell lines and after EGFR activation. Many other tyrosine sites are also phosphorylated in the N-terminal region including Tyr-96, Tyr-112, Tyr-280, and Tyr-302. In addition, Thr-310 and Thr-916 are constitutively phosphorylated in many cell types, however this phosphorylation may occur only in delta1-Catenin associated with the plasma membrane.
References	Fukumoto, Y. et al. (2008) Exp. Cell Res. 314:52. Reynolds, A.B. & Rocznia-Ferguson, A. (2004) Oncogene 23:7947. Mariner, D.J. et al. (2001) J. Biol. Chem. 276:28006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	146231940
NCBI GeneID	1500
NCBI Accession #	NP_001078927.1
NCBI GenBank Nucleotide #	NM_001085458.1
UniProt Accession #	O60716; O15088; O60713; O60714; O60715; O60935; Q6DHz7; Q6RBx8; Q9UP71; Q9UP72; Q9UP73; A8K939
Molecular Weight	108,170 Da
NCBI Official Full Name	catenin delta-1 isoform 1ABC
NCBI Official Synonym Full Names	catenin (cadherin-associated protein), delta 1
NCBI Official Symbol	CTNND1
NCBI Official Synonym Symbols	CAS; p120; CTNND; P120CAS; P120CTN; p120(CAS); p120(CTN)
NCBI Protein Information	catenin delta-1; p120 catenin; cadherin-associated Src substrate
UniProt Protein Name	Catenin delta-1
UniProt Gene Name	CTNND1
UniProt Synonym Gene Names	KIAA0384; CAS; p120(ctn)
UniProt Entry Name	CTND1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.