OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA354656

CTNND1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	Dot, WB
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to the epitope EPYGL at the phosphorylation site Tyr280 of human Catenin-delta1.
Formulation:	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by site-modified Epitope Affinity Purification.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	88 kDa
Gene Name:	catenin delta 1
Database Link:	NP_001078927 Entrez Gene 12388 MouseEntrez Gene 311163 RatEntrez Gene 1500 Human O60716

View online »

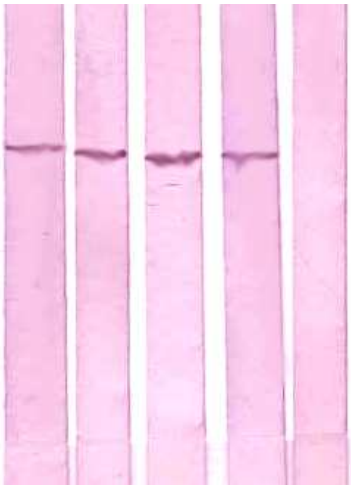
Background: Beta-catenin is a cytosolic, 88 kDa, 781 amino acid protein belongs to the β-catenin family. The N-terminus domain, containing the binding site and the phosphorylation sites. Beta-Catenin serves as a link between cytoskeleton actin and transmembrane cadherin(s). It is believed to contribute to tight cell-to-cell adhesion. It can enter the nucleus and interact with the TCF/LEF family of transcription factors, initiating gene expression. Normally, β-catenin transcriptional activity is suppressed by a Ser/Thr kinase termed GSK3β and/or Casein Kinase I (CK1). Kinases are constitutively active and phosphorylates β-catenin at multiple sites, including S33 and S37, Y96, Y228, Y280 etc. Phosphorylation of β-catenin targets the molecule for degradation via a ubiquination-mediated pathway. GSK3β activity can be blocked by upstream signaling events such as Wnt-Frizzled interaction. This inhibits GSK3β, allowing unphosphorylated β-catenin to enter the nucleus and initiate gene activation. The phosphorylation of beta-catenin might contribute to tumorigenesis.

Synonyms: CAS; CTNND; p120; p120(CAS); p120(CTN); P120CAS; P120CTN

Protein Families: Druggable Genome

Protein Pathways: Adherens junction, Leukocyte transendothelial migration

Product images:



WB: The cell lysate derived from HELA was immunoprobed at a dilution of 1:500 by the following antibodies: 1: Rabbit anti-beta-Catenin (pY228) 2: Rabbit anti-beta-Catenin (paired 228) 3: Rabbit anti-beta-Catenin (pY280) 4: Rabbit anti-beta-Catenin (Paired 280) 5: Negative control.

DB: 1ug peptide was blot onto NC membrane A: Non-Related phosphopeptde B: Beta-Catenin (pY280)) C: Beta-Catenin (Non-Phospho) Followed by immunoblotting Rabbit anti-beta-Catenin (pY280) at 1:1000.