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PRODUCT DATASHEET

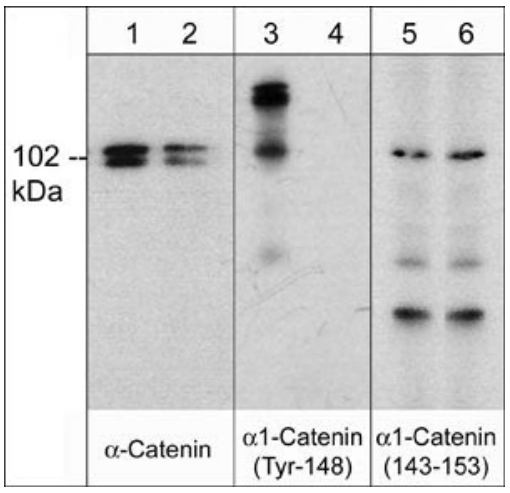
Anti-α1-Catenin (Tyr-148), Phosphospecific Antibody

Product Details

Available Variants	100 µL (SKU:CP3451)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	CTNNA1
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, WB
Dilution Ranges	WB: 1:1000
Species Reactivity	Chicken, Human, Mouse, Rat
Immunogen	Phospho-α1-Catenin (Tyr-148) synthetic peptide (coupled to KLH) corresponding to amino acid residues around tyrosine 148 in human α1-Catenin. This peptide sequence is highly conserved in rat and mouse α1-Catenin, but is not conserved in α2-Catenin or α3-Catenin.
Specificity	This antibody was cross-adsorbed to unrelated phospho-tyrosine peptide before affinity purification using phospho-α1-Catenin (Tyr-148) peptide (without carrier). The antibody detects a 102 kDa* protein corresponding to the molecular mass of α1-Catenin on SDS-PAGE immunoblots of rat PC12 cells treated with pervanadate.
Molecular Weight	102
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	P35221 UniProt Summary: Associates with the cytoplasmic domain of a variety of cadherins. The association of catenins to cadherins produces a complex which is linked to the actin filament network, and which seems to be of primary importance for cadherins cell-adhesion properties. Can associate with both E- and N-cadherins. Originally believed to be a stable component of E-cadherin/catenin adhesion complexes and to mediate the linkage of cadherins to the actin cytoskeleton at adherens junctions. In contrast, cortical actin was found to be much more dynamic than E-cadherin/catenin complexes and CTNNA1 was shown not to bind to F-actin when assembled in the complex suggesting a different linkage between actin and adherens junctions components. The homodimeric form may regulate actin filament assembly and inhibit actin branching by competing with the Arp2/3 complex for binding to actin filaments. Involved in the regulation of WWTR1/TAZ, YAP1 and TGFB1-dependent SMAD2 and SMAD3 nuclear accumulation. May play a crucial role in cell differentiation.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Tyr-148
NCBI Gene ID	1495

Product Images



Western blot analysis of rat PC12 cells treated with pervanadate (1 mM) for 30 min (lanes 1, 3, & 5) then the blot was treated with alkaline phosphatase (lanes 2, 4, & 6). The blot was probed with anti-α-Catenin monoclonal (lanes 1 & 2), anti-α1-Catenin (Tyr-148) phospho-specific (lanes 3 & 4), or anti-α1-Catenin (a.a. 143-153) (lanes 5 & 6).