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PRODUCT DATASHEET

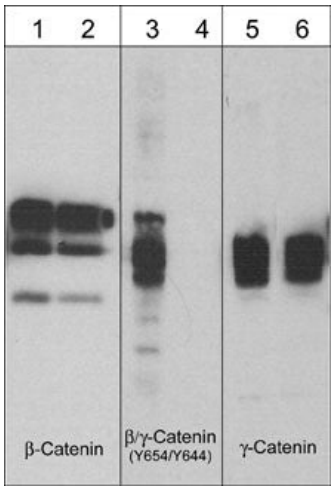
Anti-β-Catenin (Tyr-654) [γ-Catenin (Tyr-644)], Phosphospecific Antibody

Product Details

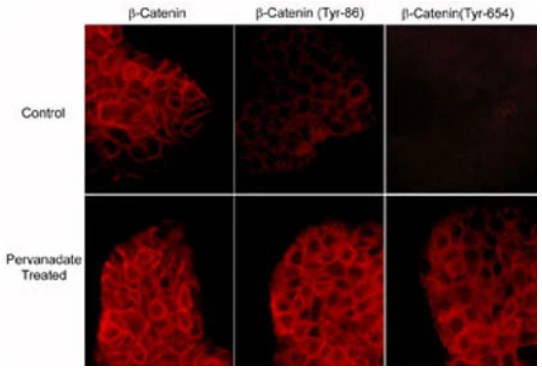
Available Variants	100 µL (SKU:CP4021)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	CTNNB1
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:1000 ICC: 1:200
Species Reactivity	Chicken, Frog, Human, Mouse, Rat
Immunogen	Phospho-β-Catenin (Tyr-654) synthetic peptide corresponds to amino acid residues around tyrosine 654 of human β-Catenin. This peptide sequence is highly conserved in rat, mouse, chicken, and frog β-Catenins, and has high homology to the conserved site in γ-Catenin (Tyr-644).
Specificity	This antibody was cross-adsorbed to phospho-β-Catenin (Tyr-86) peptide before affinity purification using phospho-β-Catenin (Tyr-654) peptide (without carrier). The antibody detects 84 and 88kDa* proteins corresponding to the molecular mass of γ-Catenin and β-Catenin, respectively, on SDS-PAGE immunoblots of A431 cells treated with pervanadate, but does not detect these proteins in control cells.
Molecular Weight	84/88

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	P35222
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-654

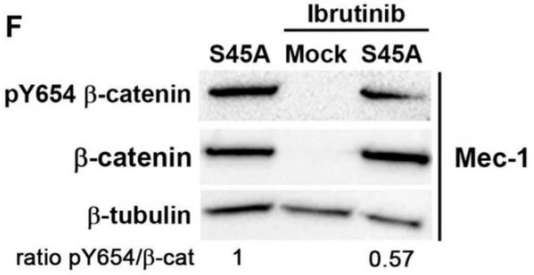
Product Images



Western blot analysis of A431 cells stimulated with pervanadate (1 mM) for 30 min (lanes 1, 3, & 5) then treated with akaline phosphatase (lanes 2, 4, & 6). The blot was probed with anti-β-Catenin (CM1181) (lanes 1 & 2), anti-β-Catenin (Tyr-654) (CP4021) (lanes 3 & 4), or anti-γ-Catenin (CM1111) (lanes 5 & 6).



Immunocytochemical labeling of phosphorylated β-Catenin in control and pervanadate-treated A431 cells. The cells were labeled with mouse monoclonal β-Catenin (CM1181) or rabbit polyclonal β-Catenin (Tyr-86) or β-Catenin (Y654) antibodies, then the antibodies were detected using appropriate secondary antibodies conjugated to Cy3.



An analysis of the phosphorylation of β-catenin at Y654 in Mec-1 cells transfected with the S45A mutant or an empty plasmid (mock). Where indicated, the cells were pretreated or not with ibrutinib (100 nM) for 1 h. The Western blot is representative of 3 independent experiments. Image from publication CC-BY-4.0. PMID: 38139452