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Anti-β-Catenin (phospho Thr41/Ser45) Rabbit mAb [96C82]

Catalog No.: A52042

Basic Information

Catalog No. (Cat.No.)	A52042
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IP,IF,ELISA
Synonyms	β-Catenin (phospho Thr41/Ser45),p-β-Catenin(Thr41/Ser45),ARMADILLO,ARM,CATNB,BCL9

Product Information

Target	β-Catenin (phospho Thr41/Ser45)
Molecular Weight(Calculated)	86 kDa
Molecular Weight(Observed)	92 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	96C82
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:2000-1:10000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	β-Catenin (phospho Thr41/Ser45)
Gene Name	*CTNNB1*
Domain	NA
Background	β-catenin (Catenin beta-1) belongs to the cadherin-associated protein family and mediates cell-cell adhesion as well as Wnt signal transduction. Thr41/Ser45 are conserved N-terminal phosphorylation sites critical for the degradation cascade of β-catenin. Under Wnt-off status, CK1α initiates phosphorylation at Ser45, followed by sequential phosphorylation of Thr41, Ser33 and Ser37 catalyzed by GSK-3β. Fully phosphorylated β-catenin is recognized by β-TrCP ubiquitin ligase and subjected to ubiquitin-proteasomal degradation to repress downstream transcription. Wnt stimulation inhibits this phosphorylation cascade, leading to β-catenin accumulation and nuclear translocation to activate target genes governing stemness, epithelial-mesenchymal transition and tumor metastasis. Thr41/Ser45 phosphorylation level reflects destruction complex activity and is routinely used to evaluate Wnt pathway status.