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Anti-β-Catenin (phospho Ser37) Rabbit mAb [45C30]

Catalog No.: A52041

Basic Information

Catalog No. (Cat.No.)	A52041
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IF,ELISA
Synonyms	β-Catenin (phospho Ser37),p-β-Catenin(Ser37),ARMADILLO,ARM,CATNB,BCL9

Product Information

Target	β-Catenin (phospho Ser37)
Molecular Weight(Calculated)	86 kDa
Molecular Weight(Observed)	86 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	45C30
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	1:500-1:2000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	β-Catenin (phospho Ser37)
Gene Name	*CTNNB1*
Domain	NA
Background	β-catenin (Catenin beta-1) belongs to the cadherin-associated protein family and exerts dual functions in cell-cell adhesion and Wnt signal transduction. As a component of cell adhesion complex, it localizes beneath plasma membrane and bridges E-cadherin to cytoskeleton to preserve epithelial tissue architecture. It also serves as the central effector of Wnt signaling. In the absence of Wnt ligands, β-catenin is recognized by destruction complex and phosphorylated at Ser37, which triggers ubiquitin-proteasome-dependent degradation and keeps its cellular abundance low. Upon Wnt activation, Ser37 phosphorylation is suppressed, allowing β-catenin translocation into nucleus to interact with TCF/LEF transcription factors, modulating cell proliferation, differentiation, apoptosis and oncogenesis. Phosphorylation at Ser37 is a hallmark for β-catenin primed for degradation, widely applied in oncology and developmental biology research.