

# β Catenin (Phospho Ser37) Rabbit mAb (AR1881)

## Key Features

Host Species:	Rabbit
Reactivity:	Human, Mouse, Rat
Applications:	WB, IF, ELISA
Isotype:	IgG, Kappa
MW:	85kDa (Calculated) 85kDa (Observed)

## Recommended Dilution Ratios

WB:	1:500-2000
IF:	1:200-1000
ELISA:	1:5000-20000

## Storage

-15°C to -25°C/1 year (Do not lower than -25°C)

## Basic Information

Clonality	Monoclonal
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## Immunogen Information

Specificity

Phospho-Catenin-β (S37) Antibody detects endogenous levels of Catenin-β protein only when phosphorylated at S37. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): IHsGA

## Target Information

Gene name

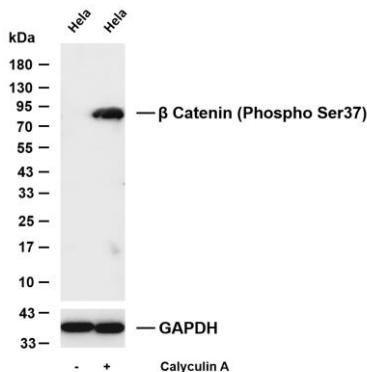
CTNNB1 CTNNB OK/SW-cl.35 PRO2286

Protein Name

Catenin-β; b-catenin; Beta catenin; Beta-catenin; Cadherin associated protein; Catenin (cadherin associated protein), beta 1, 88kDa; Catenin beta 1; Cateninbeta-1; CATNB; CHBCAT; CTNB1\_HUMAN; CTNNB; CTNNB1

	Organism	Gene ID	UniProt ID
	Human	1499	P35222
	Mouse	12387	Q02248
	Rat	84353	Q9WU82
Cellular Localization	<p>Cytoplasm. Nucleus. Cytoplasm, cytoskeleton. Cell junction, adherens junction. Cell junction. Cell membrane. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle pole. Cell junction, synapse. Cytoplasm, cytoskeleton, cilium basal body. Colocalized with RAPGEF2 and TJP1 at cell-cell contacts (By similarity). Cytoplasmic when it is unstabilized (high level of phosphorylation) or bound to CDH1. Translocates to the nucleus when it is stabilized (low level of phosphorylation). Interaction with GLIS2 and MUC1 promotes nuclear translocation. Interaction with EMD inhibits nuclear localization. The majority of beta-catenin is localized to the cell membrane. In interphase, colocalizes with CROCC between CEP250 puncta at the proximal end of centrioles, and this localization is dependent on CROCC and CEP250. In mitosis, when NEK2 activity increases, it localizes to centrosomes at spindle poles independent of CROCC. Colocalizes with CDK5 in the cell-cell contacts and plasma membrane of undifferentiated and differentiated neuroblastoma cells. Interaction with FAM53B promotes translocation to the nucleus (PubMed:25183871).</p>		
Tissue specificity	<p>Expressed in several hair follicle cell types: basal and peripheral matrix cells, and cells of the outer and inner root sheaths. Expressed in colon. Present in cortical neurons (at protein level). Expressed in breast cancer tissues (at protein level) (PubMed:29367600).</p>		

## Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti- $\beta$  Catenin (Phospho Ser37) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.

Lane 1: HeLa

Lane 2: HeLa was treated with Calyculin A(100nM) for 30 minutes

Predicted band size: 85kDa

Observed band size: 85kDa