Anti-Phospho-beta Catenin (Thr41/Ser45) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014144

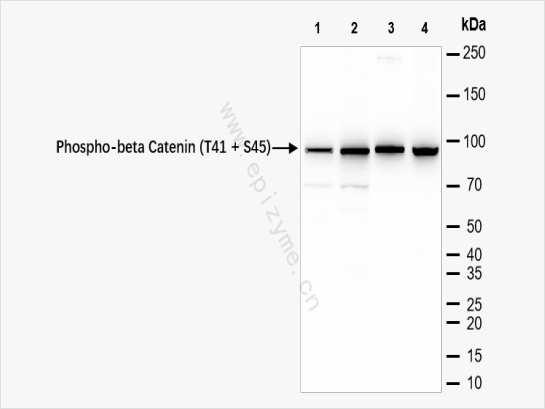
Product Information

Application	ELISA, WB
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	55T66J80
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-beta Catenin (T41 + S45)
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-beta Catenin (Thr41/Ser45) Rabbit mAb [55T66J80] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	b-catenin, Beta catenin, Beta-catenin, Cadherin associated protein, Catenin (cadherin associated protein), beta 1, 88kDa, Catenin beta 1, Catenin beta-1, CATNB, CHBCAT, CTNB1_HUMAN, CTNNB, CTNNB1, DKFZp686D02253, FLJ25606, FLJ37923, OTTHUMP00000162082, OTTHUMP00000165222, OTTHUMP00000165223, OTTHUMP00000209288, OTTHUMP00000209289.
Calculated MW	Calculated MW: 85 kDa; Observed MW: 92 kDa
Uniprot ID	P35222
Gene ID	1499
Background	Key dowstream component of the canonical Wnt signaling pathway. In the absence of Wnt, forms a complex with AXIN1, AXIN2, APC, CSNK1A1 and GSK3B that promotes phosphorylation on N-terminal Ser and Thr residues and ubiquitination of CTNNB1 via BTRC and its subsequent degradation by the proteasome.
Cellular Location	Cytoplasm. Nucleus. Cytoplasm > cytoskeleton. Cell junction > adherens junction. Cell junction. Cell membrane. 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.
Tissue Location	Expressed in several hair follicle cell types: basal and peripheral matrix cells, and cells of the outer and inner root sheaths. Expressed in colon.

Validation Images



Western Blot - Anti-Phospho-beta Catenin (Thr41/Ser45) Rabbit mAb [55T66J80]
All lanes: R014144 at 1:1,000 dilution
Lane 1: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 2: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 3: Rat heart whole tissue lysates
Lane 4: Rat brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 85 kDa
Observed band size: 92 kDa
Developed using the ECL technique (Cat. No. SQ201).