



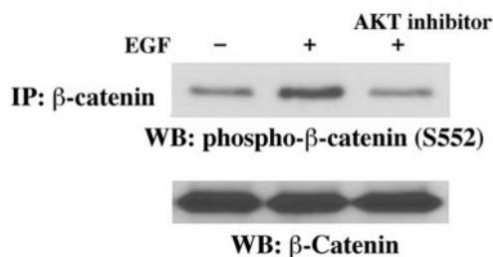
β -catenin (Phospho-Ser552) Antibody

#12395

Number: 12395**Amount:** 100 μ g/100 μ l**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.**Storage/Stability:** Store at -20°C/1 year**Immunogen:** synthetic phosphopeptide corresponding to residues surrounding Ser552 of human β -catenin**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.**Specificity/Sensitivity:** β -catenin (Phospho-Ser552) antibody detects endogenous levels of β -catenin only when phosphorylated at Serine552 .**Reactivity:** Human**Applications:**

Predicted MW: 95KD

WB :1:500~1:1000 IHC:1:50-200



Serum-starved A431 cells were pretreated with the AKT inhibitor (10 μ M) for 30 min before EGF treatment (100 ng/ml). Immunoprecipitation or immunoblot analyses were performed with the indicated antibodies.

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Background : Increased transcriptional activity of β -catenin resulting from Wnt/Wingless-dependent or-independent signaling has been detected in many types of human cancer. AKT phosphorylates β -catenin at Ser552, which leads to its disassociation from cell-cell contacts, increases its transcriptional activity and enhances invasion by tumor cells ^[i].

Reference:

[i] Xu D, Li X, Shao F, Lv G, Lv H, Lee JH, Qian X, Wang Z, Xia Y, Du L, Zheng Y, Wang H, Lyu J, Lu Z. The protein kinase activity of fructokinase A specifies the antioxidant responses of tumor cells by phosphorylating p62. *Sci Adv*. 2019 Apr 24;5(4):eaav4570. doi: 10.1126/sciadv.aav4570.