β-catenin (Phospho-Tyr333) Antibody

#11595

Number: 11595

Amount: 100μg/100μl

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℃/1 year

Immunogen: synthetic phosphopeptide corresponding to residues surrounding Tyr333 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 phospholation site.

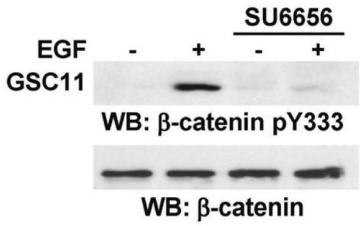
Specificity/Sensitivity: β-catenin (Phospho-Tyr333)antibody detects endogenous levels of β-catenin only when phospholated at Tyrosine333 .

Reactivity: Human

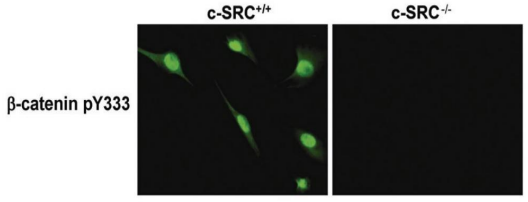
Applications:

Predicted MW: 95KD

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



The total cell lysates were prepared from the indicated primary GBM cells, which were pretreated with or without SU6656 (4 μ M) for 30 min before being treated with or without EGF (100 ng/ml) for 6 h. Immunoprecipitation and immunoblotting analyses were performed with the indicated antibodies.



Immunofluorescence analyses of c-SRC+/+ and c-SRC-/- cells were performed with the indicated antibodies. EGF induced phosphorylation of β-catenin Y333 in cSRC+/+, but not in c-SRC-/-,

Background : In human cancer cells, that epidermal growth factor receptor (EGFR) activation induces translocation of PKM2 into the nucleus, where K433 of PKM2 binds to c-Src-phosphorylated Y333 of b-catenin. The transactivation of b-catenin is instrumental in EGFR promoted tumour cell proliferation and brain tumour development. Levels of b-catenin phosphorylation have been correlated with grades of glioma malignancy and prognosis [1] .

Reference:[1] Yang W, Xia Y, Ji H, Zheng Y, Liang J, Huang W, Gao X, Aldape K, Lu Z. Nuclear PKM2 regulates β -catenin transactivation upon EGFR activation. Nature. 2011 Dec 1;480(7375):118-22. doi: 10.1038/nature10598.