

β -catenin (G48D)

Catalog Number: 26166

Gene Symbol: CTNNB1, CTNNB

Description: Anti- β -catenin (G48D) Mouse Monoclonal Antibody

Background: Beta-catenin (or β -catenin) is a protein that in humans is encoded by the *CTNNB1* gene. β -catenin is a subunit of the cadherin protein complex and also acts as an intracellular signal transducer in the Wnt signaling pathway. Deregulation of beta-catenin signaling is an important event in the genesis of a number of malignancies, such as colon cancer, melanoma, hepatocellular carcinoma, ovarian cancer, endometrial cancer, medulloblastoma pilomatricomas, and prostate cancer.

Immunogen: A synthetic peptide from the internal region of β -catenin which includes the mutation of G48D, human origin.

Tested applications: ELISA, WB, IF, IHC

Recommended dilutions:

ELISA: 1:1000-1:5000

WB: 1:500-1:2000

IHC: 1:50-1:100

Concentration: 1 mg/ml

Host: Mouse

Clonality: Monoclonal

Purity: Purified from ascites

Format: Liquid

Storage buffer:

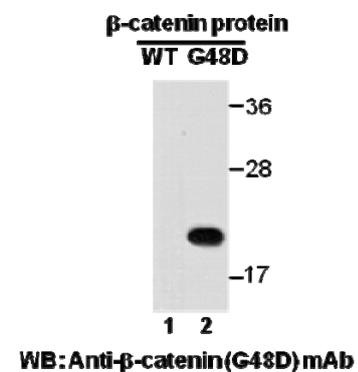
Preservative: no

Constituents: PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 150 mM NaCl, 50% glycerol

Species Reactivity: Recognizes β -catenin (G48D), but not wild type β -catenin protein from vertebrates.

Storage Conditions: Store at $-20^{\circ}C$. Avoid freeze / thaw cycles.

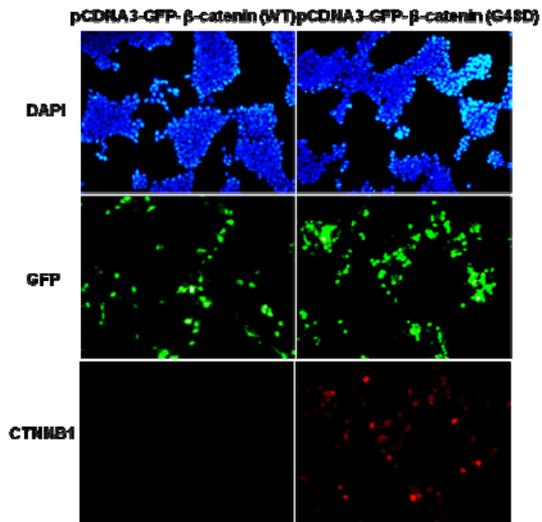
Western blot:



Western blot analysis of recombinant β -catenin (G48D) and wildtype proteins.

Purified His-tagged β -catenin (G48D) protein (amino acids 1-76, lane 2) and corresponding wild type protein (lane 1) were blotted with anti- β -catenin (G48D) mouse monoclonal antibody (Cat. #26166).

Immunofluorescence:



Immunofluorescence of cells expressing β -catenin proteins with anti- β -catenin (G48D) antibody. HEK293T cells were transfected with pCDNA3-GFP- β -catenin (WT) plasmid (left column) or pCDNA3-GFP- β -catenin (G48D) plasmid (right column), then fixed and stained with anti- β -catenin (G48D) monoclonal antibody (Cat. #26166).