

**B-CATENIN(G48D)****β-Catenin(G48D)****Cat. #:** 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.

**Applications:** ELISA, WB, IF, IHC**Recommended Dilutions:**

ELISA: 1:1000–1:5000

WB: 1:500–1:2000

IHC: 1:50–1:100

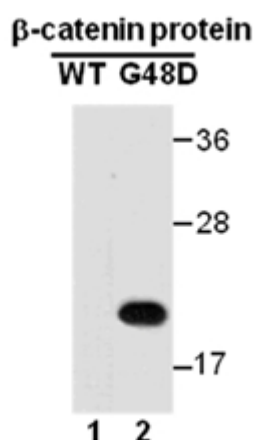
**Concentration:** 1 mg/ml**Host Species:** Mouse**Format:** Liquid**Clonality:** Monoclonal**Isotype:** IgG**Purity:** Purified from ascites**Preservative:** No

**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°C. Avoid repeated freezing and thawing

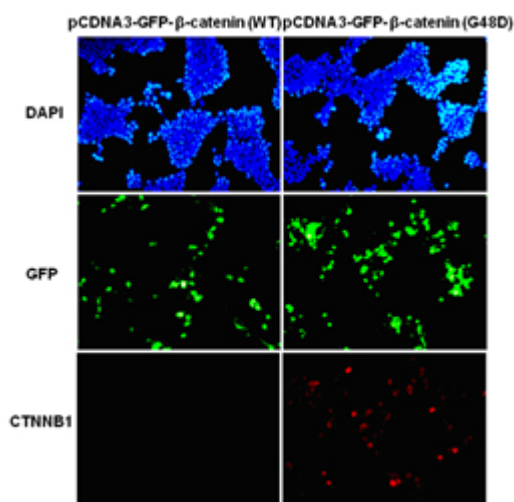
## Western blot:



### WB: Anti-β-catenin(G48D) mAb

Western blot analysis of recombinant β-catenin (G48D) and wild type 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).