

## B-CATENIN(E53K)

### β-Catenin(E53K)

**Cat. #:** 26167

**Gene Symbol:** CTNNB1, CTNNB

**Description:** Anti-β-catenin(E53K) 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 E53K, 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

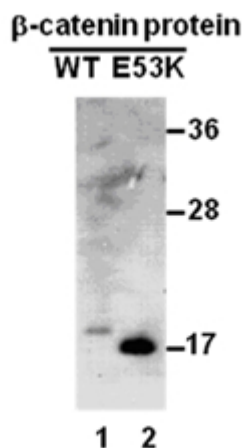
**Preservative:** No

**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 50% glycerol

**Species Reactivity:** Recognizes β-catenin(E53K), but not wild type β-catenin protein from vertebrates.

**Storage Conditions:** Store at -20°C. Avoid repeated freezing and thawing

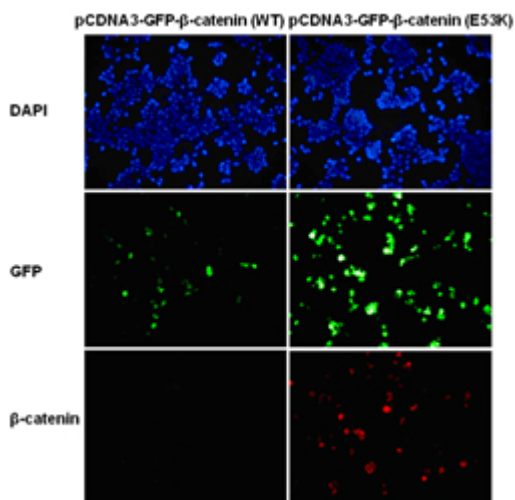
## Western blot:



**WB: Anti-β-catenin(E53K) mAb**

Western blot analysis of recombinant β-catenin(E53K) and wild type proteins. Purified His-tagged β-catenin(E53K) protein (amino acids 1-76, lane 2) and corresponding wild type protein (lane 1) were blotted with Anti-β-catenin(E53K) mouse monoclonal antibody (Cat. #26167).

## Immunofluorescence:



Immunofluorescence of cells expressing β-catenin proteins with anti-β-catenin(E53K) antibody. HEK293T cells were transfected with pCDNA3-GFP-β-catenin (WT) plasmid (left column) or pCDNA3-GFP-β-catenin(E53K) plasmid (right column), then fixed and stained with Anti-β-catenin (E53K) monoclonal antibody (Cat. #26167).