

## **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

#### CTNNB1(S45F)

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Cat. #: 26308

Gene Symbol: Beta-catenin, CTNNB, Catenin beta-1

**Description:** Anti-CTNNB1(S45F) Mouse Monoclonal Antibody

**Background:** CTNNB1 protein is a dual function protein. It is a subunit of a complex of proteins that from adherent junctions, which are important for the establishment and maintenance of epithelial cell layers by regulating cell growth and adhesion between adjacent cells. CTNNB1 protein also pulls double duty as an intracellular signal transducer in the Wnt signaling pathway. Mutations of CTNNB1 have been implicated in the pathogenesis of several cancers.

**Immunogen:** A synthetic peptide from the internal region of CTNNB1 which includes the mutation of S45F, human origin.

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

ELISA: 1:1000-1:5000 WB: 1:500-1:1000 IHC: 1:50-1:100

Concentration: 2 mg/ml

Host Species: Mouse

Format: Liquid

**Clonality:** Monoclonal

Isotype: IgG

Purity: Purified from ascites

**Preservative:** No

Constituents: PBS (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 50%

glycerol

**Species Reactivity:** Recognizes S45F mutant, but not wild type CTNNB1 of

vertebrates.

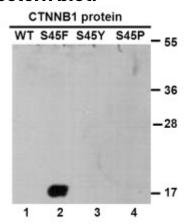
Storage Conditions: Store at -20°C. Avoid repeated freezing and thawing



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#### **Western blot:**



WB: anti-CTNNB1 (S45F) mAb

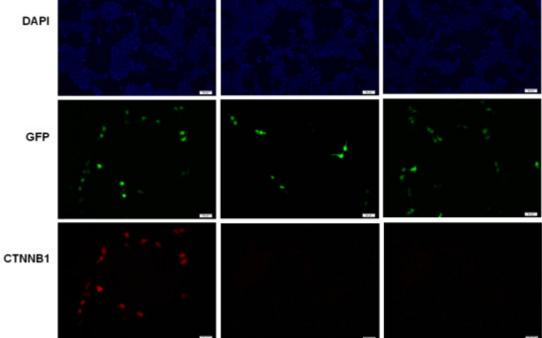
### Western blot analysis of recombinant CTNNB1 (\$45F) and wild type proteins.

Purified His-tagged CTNNB1 (S45F) protein (Iane2), CTNNB1 (S45Y) protein (lane3), CTNNB1 (S45P) protein (lane4) protein and corresponding wild type protein (lanel) were blotted with Anti-CTNNB1(S45F) monoclonal antibody (Cat. #26308).

#### Immunofluorescence:

DAPI

pCDNA3-GFP-CTNNB1 (S45F) pCDNA3-GFP-CTNNB1 (WT) pCDNA3-GFP-CTNNB1 (S45Y)



Immunofluorescence of cells expressing CTNNB1 proteins with Anti-CTNNB1(S45F) antibody. HEK293T cells were transfected with pCDNA3-GFP-CTNNB1 (S45F) plasmid, pCDNA3-GFP-CTNNB1 (WT) plasmid or pCDNA3-GFP-CTNNB1 (S45Y) plasmid, then fixed and stained with Anti-CTNNB1(S45F) monoclonal antibody (Cat. #26308)



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