

## Recombinant Non-Phospho (Active) $\beta$ -Catenin (Ser33, Ser37, Thr41) Monoclonal Antibody

catalog number: AN301881L

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

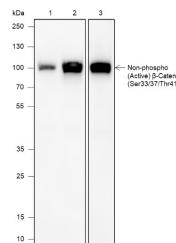
Reactivity	Human; Rat; Mouse
Immunogen	Recombinant human Non-phospho (Active) $\beta$ -Catenin (Ser33/37/Thr41) fragment
Host	Rabbit
Isotype	IgG, $\kappa$
Clone	A593
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

### Applications

### Recommended Dilution

WB	1:500-1:1000
IHC	1:100-1:500
IF	1:50

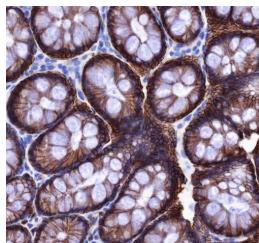
### Data



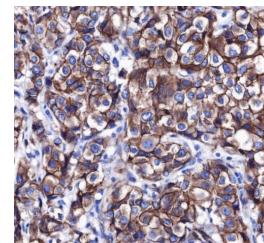
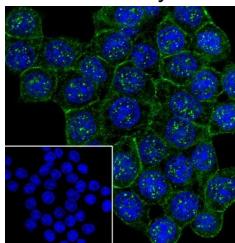
Western Blot with Non-Phospho (Active)  $\beta$ -Catenin (Ser33, Ser37, Thr41) Monoclonal Antibody at dilution of 1:1000. Lane 1: HeLa, Lane 2: HCT-116, Lane 3: C6

Observed-MW:100 kDa

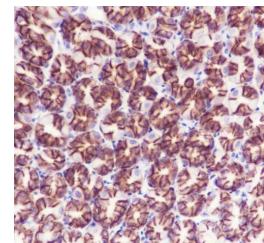
Calculated-MW:85 kDa



Immunohistochemistry of paraffin-embedded Mouse colon using Non-Phospho (Active)  $\beta$ -Catenin (Ser33, Ser37, Thr41) Monoclonal Antibody at dilution of 1:500.



Immunohistochemistry of paraffin-embedded Human breast cancer using Non-Phospho (Active)  $\beta$ -Catenin (Ser33, Ser37, Thr41) Monoclonal Antibody at dilution of 1:500.



Immunohistochemistry of paraffin-embedded Rat stomach using Non-Phospho (Active)  $\beta$ -Catenin (Ser33, Ser37, Thr41) Monoclonal Antibody at dilution of 1:500.

### For Research Use Only

Toll-free: 1-888-852-8623

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Rev. V1.1

Immunofluorescent analysis of (100% Ice-cold methanol) fixed HCT-116 cells using anti-Non-Phospho (Active)  $\beta$ -Catenin (Ser33, Ser37, Thr41) Monoclonal Antibody at dilution of 1:50.

### Preparation & Storage

**Storage** Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

**Shipping** Ice bag

### Background

$\beta$ -catenin is a key downstream effector in the Wnt signaling pathway. It is implicated in two major biological processes in vertebrates: early embryonic development and tumorigenesis. CK1 phosphorylates  $\beta$ -catenin at Ser45. This phosphorylation event primes  $\beta$ -catenin for subsequent phosphorylation by GSK-3 $\beta$ . GSK-3 $\beta$  destabilizes  $\beta$ -catenin by phosphorylating it at Ser33, Ser37, and Thr41. Mutations at these sites result in the stabilization of  $\beta$ -catenin protein levels and have been found in many tumor cell lines. Non-phospho (Active)  $\beta$ -Catenin (Ser33/37/Thr41) Rabbit mAb specifically recognizes  $\beta$ -catenin that is non-phosphorylated at Ser33, Ser37 or Thr41. Non-phospho  $\beta$ -Catenin (Ser33, Ser37 or Thr41) protein is useful as a readout of stabilized  $\beta$ -catenin protein, and therefore functionally active in cell-cell adhesion and mediating transcriptional activity via the canonical Wnt signaling pathway.

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