

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

catalog number: AN301881L

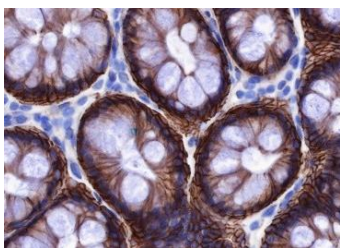
**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

### Description

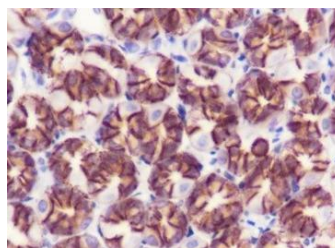
<b>Reactivity</b>	Human;Rat;Mouse
<b>Immunogen</b>	Recombinant human Non-phospho (Active) $\beta$ -Catenin (Ser33/37/Thr41) fragment
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG, $\kappa$
<b>Clone</b>	A593
<b>Purification</b>	Protein A purified
<b>Buffer</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein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

### Applications Recommended Dilution

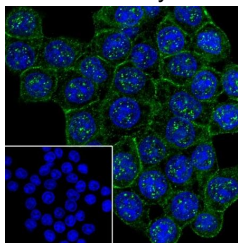
<b>WB</b>	1:500-1:1000
<b>IHC</b>	1:100-1:500
<b>IF</b>	1:50



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



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

<b>Storage</b>	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
<b>Shipping</b>	Ice bag

### Background

#### For Research Use Only

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Rev. V1.0

$\beta$ -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, Ser33 or Thr41. Non-phospho  $\beta$ -Catenin (Ser33, Ser33 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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