Anti-Phospho-Ser$^{33,37}$ β-Catenin Antibody

Catalog #: p120-3337  Size: 100 µl

Cite this Antibody: PhosphoSolutions Cat# p120-3337, RRID:AB_2492049

<table>
<thead>
<tr>
<th>Host</th>
<th>Applications</th>
<th>Species Tested</th>
<th>Species Reactivity</th>
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</thead>
<tbody>
<tr>
<td>Rabbit</td>
<td>WB 1:1000</td>
<td>H</td>
<td>M, R, X</td>
<td>~83 kDa</td>
</tr>
</tbody>
</table>

Product Description: Affinity purified rabbit polyclonal antibody.

Biological Significance: β-catenin is a central component of the cadherin cell adhesion complex and plays an essential role in neural development in the Wingless/Wnt signaling pathway (Ding and Dale, 2002; Polakis, 2000). The role of β-catenin in these processes is thought regulated by the sequential phosphorylation of Ser$^{29}$, Ser$^{33}$, Ser$^{37}$ and Thr$^{41}$ by glycogen synthase kinase 3β (GSK3β) (Liu et al., 2002). This hyperphosphorylation promotes the ubiquitylation and targeted destruction of β-catenin. Mutations in components of this phosphorylation regulated process that prevent β-catenin hyperphosphorylation by GSK3β are strongly associated with cancers (Wang et al., 2003; Polakis, 2000; Liu et al., 2002).

Antigen: Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser$^{33,37}$ of human β-catenin.

Antibody Specificity: Specific for endogenous levels of the ~83 kDa β-catenin phosphorylated at Ser$^{33}$ and Ser$^{37}$

Purification Method: Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.

Quality Control Tests: Western blots performed on each lot.

Packaging: 100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg BSA per ml and 50% glycerol.

Storage and Stability: Shipped on blue ice. Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.

Western blot of human embryonic kidney cell (HEK) lysate showing specific immunolabeling of the ~83 kDa β-catenin phosphorylated at Ser$^{33}$ and Ser$^{37}$ (Upper Panel) and a pan β-catenin (Lower Panel). Control is a standard HEK cell lysate. GSK3 is a HEK cell lysate with glycogen synthase kinase 3β knocked down by SiRNA.
Product Specific Reference:


**General References:**


*Species assumed based on 100% homology with sequence used as antigen*