beta-Catenin Polyclonal ANTIBODY

Catalog Number: 17565-1-AP

Basic Information

- Catalog Number: 17565-1-AP
- Size: 50 μg/150 μl
- Source: Rabbit
- Isotype: IgG
- Purification Method: Antigen affinity purification
- Immunogen Catalog Number: AG11763

GenBank Accession Number: BC058926
GeneID (NCBI): 1489
Calculated MW: 78,117.0 Da
Observed MW: 92 kDa

Recommended Dilutions:
- WB: 1:2000-1:12000
- IHC: 1:50-1:500
- IF: 1:50-1:500

Applications

- Tested Applications: IF, IHC, WB, ELISA
- Cited Applications: IF, IHC, IP, WB
- Species Specificity: human, mouse, rat, zebrafish
- Cited Species: human, mouse, rat

Note: IHC: suggested antigen retrieval with TE buffer pH 9.0. (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:
- WB: C6 cells, mouse brain tissue, HeLa cells, NIH/3T3 cells, A431 cells, rat brain tissue, HEB-293 cells, MCF-7 cells, mouse liver tissue, rat liver tissue
- IHC: human liver cancer tissue, human breast cancer tissue
- IF: A431 cells, MCF-7 cells

Background Information

β-Catenin, also known as CTNNB1, is an evolutionarily conserved, multifunctional intracellular protein. β-Catenin was originally identified in cell adherens junctions (AJs) where it functions to bridge the cytoplasmic domain of cadherins to α-catenin and the actin cytoskeleton. Besides its essential role in the AJs, β-catenin is also a key downstream component of the canonical Wnt pathway that plays diverse and critical roles in embryonic development and adult tissue homeostasis. The Wnt/β-catenin pathway is also involved in the activation of other intracellular messengers such as calcium fluxes, JNK, and SRC kinases. Deregulation of β-catenin activity is associated with multiple diseases including cancers. (PMID: 22617422; 18334222)

Notable Publications

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<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
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<tbody>
<tr>
<td>Jinming Wang</td>
<td>31443611</td>
<td>J Agric Food Chem</td>
<td>WB, IF</td>
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<tr>
<td>Shengfeng Zhan</td>
<td>31481098</td>
<td>Arthritis Res Ther</td>
<td>IHC</td>
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<tr>
<td>Feng Zhang</td>
<td>30398003</td>
<td>Cell Biol Int</td>
<td>IHC</td>
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Storage

- Storage: Store at -20°C. Stable for one year after shipment.
- Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- Alloquing is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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Various lysates were subjected to SDS PAGE followed by western blot with 17565-1-AP (beta-Catenin antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17565-1-AP (beta-Catenin antibody) at dilution of 1:200 (under 10x lens), heat mediated antigen retrieval with Tris-EDTA buffer (pH 9).

Immunofluorescent analysis of A431 cells using 17565-1-AP (beta-Catenin antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).