**beta-Catenin**

**Monoclonal ANTIBODY**

Catalog Number: 66379-1-Ig  
2 Publications

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### Basic Information

- **Catalog Number**: 66379-1-Ig
- **Size**: 150 μg/150 μl
- **Source**: Mouse
- **Isotype**: IgG1
- **Purification Method**: Protein G purification
- **Immunogen Catalog Number**:
- **Full Name**: catenin (cadherin-associated protein), beta 1, 88kDa
- **Calculated MW**: 781aa, 86 kDa
- **Observed MW**: 92 kDa
- **Recommended Dilutions**:
  - WB: 1:2000-1:12000
  - IP: 0.5-4.0 μg for IP and 1:1000-1:4000 for WB
  - IHC: 1:100-1:1000
  - IF: 1:50-1:500

### Applications

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

### 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 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

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
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<tbody>
<tr>
<td>Linjun Hong</td>
<td>28912304</td>
<td>Reproduction</td>
<td>WB, COIP, IHC</td>
</tr>
<tr>
<td>Na Fu</td>
<td>26303418</td>
<td>Gene</td>
<td>WB</td>
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</tbody>
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### Storage

- **Storage**: Store at -20ºC. Stable for one year after shipment.
- **Storage Buffer**: PBSS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20ºC storage**

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For technical support and original validation data for this product please contact:

E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
**Selected Validation Data**

**IP result of anti-beta-Catenin**

(IP: 66379-1-Ig, 4ug; Detection: 66379-1-Ig 1:2000) with mouse brain tissue lysate (4400 ug)

**Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using 66379-1-Ig (beta-Catenin antibody) at dilution of 1:100 and Alexa Fluor 488 conjugated AffiniPure Goat Anti-Mouse IgG(H+L)

**Various lysates were subjected to SDS PAGE followed by western blot with 66379-1-Ig (beta-Catenin antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.**

**Immunohistochemistry of paraffin-embedded human liver cancer tissue slide using 66379-1-Ig (beta-Catenin antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieved with Tris-EDTA buffer(pH9).**

**Immunohistochemistry of paraffin-embedded human liver cancer tissue slide using 66379-1-Ig (beta-Catenin antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieved with Tris-EDTA buffer(pH9).**