Purified Mouse Anti-β-Catenin

Product Information

Material Number: 610153
Size: 50 µg
Concentration: 250 µg/ml
Clone: 14/Beta-Catenin
Immunogen: Mouse β-Catenin aa. 571-781
Isotype: Mouse IgG1
Reactivity: Tested in Development: Mouse, Rat, Dog, Chicken
Target MW: 92 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

The 14/Beta-Catenin monoclonal antibody specifically binds to Beta-Catenin (β-Catenin). β-Catenin is a 92 kDa protein that binds to the cytoplasmic tail of E-Cadherin. The cadherins, transmembrane adhesion molecules, are found with catenins at adherens junctions (zonula adherens). Deletions in the cytoplasmic domain of E-Cadherin which eliminate catenin binding also result in a loss of cell adhesion, indicating that this binding is essential for E-Cadherin function. Although the α- and β-Catenins have been cloned, very little is known about their biochemical roles. However a link between β-Catenin and colon cancer has been described. β-Catenin was found to co-immunoprecipitate with the APC tumor suppressor protein in human colorectal tumor cell lines, as well as in human kidney 293 cells. E-Cadherin, however, was not detectable in these complexes. Thus the APC-Catenin complex may be affecting the transmission of contact inhibition signals and/or the regulation of cell adhesion.

Western blot analysis of β-Catenin on HeLa cell lysate.

Immunofluorescent staining of A431 cell line with the Anti-β-Catenin antibody.

Preparation and Storage

Store undiluted at -20°C.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

| Western blot | Routinely Tested |
| Immunoprecipitation | Tested During Development |
| Immunofluorescence | Tested During Development |
| Immunohistochemistry | Tested During Development |

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<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tr>
<td>554002</td>
<td>HRP Goat Anti-Mouse Ig</td>
<td>1.0 ml</td>
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<td>554001</td>
<td>FITC Goat Anti-Mouse Ig</td>
<td>0.5 mg</td>
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<td>611449</td>
<td>HeLa Cell Lysate</td>
<td>500 µg</td>
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Product Notices
1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References
Fallone F, Britton S, Nieto L, Salles B, Muller C. ATR controls cellular adaptation to hypoxia through positive regulation of hypoxia-inducible factor 1 (HIF-1) expression. Oncogene. 2013; 32(37):4367-4396. (Clone-specific: Western blot)