Technical Data Sheet

Purified Mouse Anti-β-Catenin

Product Information

 Material Number:
 610154

 Size:
 150 μg

 Concentration:
 250 μg/ml

 Clone:
 14/Beta-Catenin

Immunogen: Mouse β-Catenin aa. 571-781

 Isotype:
 Mouse IgG1

 Reactivity:
 QC Testing: Human

Tested in Development: Mouse, Rat, Dog, Chicken

Target MW: 92 kD

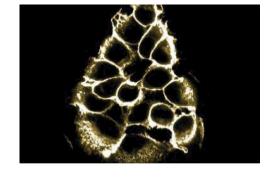
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium

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. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the Mouse Anti- β-Catenin antibody.

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

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

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Suggested Companion Products

Catalog Number	Name	Size	Clone
611449	HeLa Cell Lysate	500 μg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

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.
- 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.
- 4. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Eger A, Stockinger A, Schaffhauser B, Beug H, Foisner R. Epithelial mesenchymal transition by c-Fos estrogen receptor activation involves nuclear translocation of beta-catenin and upregulation of beta-catenin/lymphoid enhancer binding factor-1 transcriptional activity. *J Cell Biol.* 2000; 148(1):173-187. (Clone-specific: Electron microscopy, Immunofluorescence, Immunoprecipitation, Western blot)

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):4387-4396. (Clone-specific: Western blot)

Lee MS, D'Amour KA, Papkoff J. A yeast model system for functional analysis of beta-catenin signaling. *J Cell Biol.* 2002; 158(6):1067-1078. (Clone-specific: Immunofluorescence, Immunoprecipitation, Western blot)

Ozawa M, Ringwald M, Kemler R. Uvomorulin-catenin complex formation is regulated by a specific domain in the cytoplasmic region of the cell adhesion molecule. Proc Natl Acad Sci U S A. 1990; 87(11):4246-4250. (Biology)

Persad S, Troussard AA, McPhee TR, Mulholland DJ, Dedhar S. Tumor suppressor PTEN inhibits nuclear accumulation of beta-catenin and T cell/lymphoid enhancer factor 1-mediated transcriptional activation. *J Cell Biol.* 2001; 153(6):1161-1173. (Clone-specific: Gel shift, Immunofluorescence, Immunoprecipitation, Western blot)

Tateishi K, Omata M, Tanaka K, Chiba T. The NEDD8 system is essential for cell cycle progression and morphogenetic pathway in mice. *J Cell Biol.* 2001; 155(4):571-579. (Clone-specific: Immunofluorescence, Immunohistochemistry)

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