

#M24002

β -Catenin (44C6) Mouse mAb

Abmart

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□ 100 μ l (10 Western mini-blot)

BACKGROUND

The catenins, α , β and γ , are proteins which bind to the highly conserved, intracellular cytoplasmic tail of E-cadherin. Together, the catenin/cadherin complexes play an important role mediating cellular adhesion. α -catenin was initially described as an E-cadherin associated protein, and since has been shown to associate with other members of the cadherin family, such as N-cadherin and P-cadherin. β -catenin associates with the cytoplasmic portion of E-cadherin, which is necessary for the function of E-cadherin as an adhesion molecule. β -catenin has also been found in complexes with the tumor suppressor protein APC. γ -catenin, also known as plakoglobin, is a protein that binds with α -catenin and N-cadherin. It has been shown that the transmembrane phosphatase PTP μ associates with catenin/cadherin complexes and may regulate complex signaling.

REFERENCES

1. Edelman, G.M. and Crossin, K.L. 1991. Cell adhesion molecules: implications for a molecular histology. Annu. Rev. Biochem. 60: 155-190.
2. Takeichi, M. 1991. Cadherin cell adhesion receptors as a morphogenetic regulator. Science 251: 1451-1455.
3. Tsukita, S., Itoh, M., Nagafuchi, A., Yonemura, S. and Tsukita, S. 1993. Submembranous junctional plaque proteins include potential tumor suppressor molecules. J. Cell Biol. 123: 1049-1053.
4. Johnson, K.R., Lewis, J.E., Li, D., Wahl, J., Soler, A.P., Knudsen, K.A. and Wheelock, M.J. 1993. P- and E-cadherin are in separate complexes in cells expressing both cadherins. Exp. Cell. Res. 207: 252-260.
5. Reynolds, A.B., Daniel, J., McCrea, P., Wheelock, M.J., Wu, J. and Zhang, Z. 1994. Identification of a new catenin: the tyrosine kinase substrate p120cas associates with E-cadherin complexes. Mol. Cell. Biol. 14: 8333-8342.

SOURCE

This Abmart monoclonal antibody is produced by immunizing mice with a synthetic peptide (KLH-coupled) corresponding to carboxy-terminal residues of human β -catenin.

SPECIFICITY

β -Catenin (44C6) Mouse mAb detects endogenous levels of total β -catenin protein.

STORAGE

Lyophilized antibody store at Room Temperature; Store at -20°C after dissolved in 100 μ l Antibody Dilution Buffer. Stable for one year from the date of shipment.

REACTIVITY

Human, Mouse, Rat

ISOTYPE

Mouse IgG1

MOLECULAR WEIGHT

92 kDa

IMPORTANT

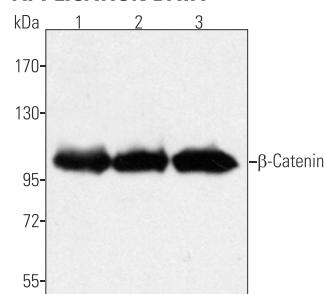
1. Centrifuge to settle the lyophilized antibody to the bottom of the vial. Reconstitute using **100 μ l** Antibody Dilution Buffer.
2. Use an **anti-MOUSE** secondary antibody to detect the 44C6 antibody.

RECOMMENDED ANTIBODY DILUTIONS

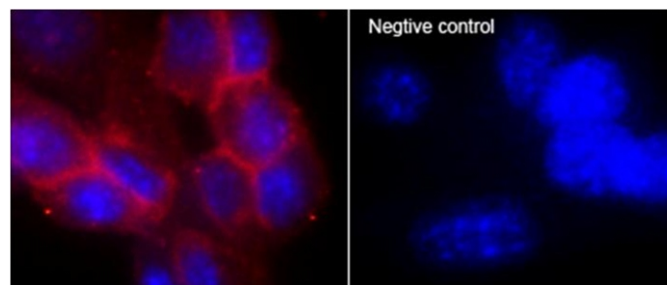
Western blotting	1:1000
Immunofluorescence	1:200
Immunohistochemistry	1:200

*** For Western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1 \times TBS, 0.05% Tween-20 at 4°C with gentle shaking, overnight.**

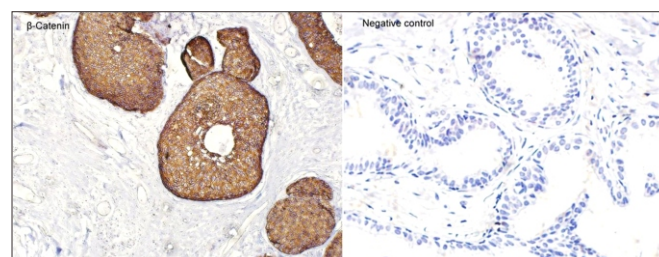
APPLICATION DATA



Western Blot analysis of extracts from 293T, PC12 and NIH/3T3 whole cell lysate (20 μ g) using β -Catenin (44C6) Mouse mAb (1:1000).



IF analysis of NIH/3T3 cell using β -Catenin (44C6) Mouse mAb (1:200).



Immunohistochemical analysis of Paraffin-embedded human breast carcinoma using β -Catenin (44C6) Mouse mAb (1:200).

COMPANION PRODUCTS

#M21001 Goat Anti-Mouse IgG-HRP