ALPHA DIAGNOSTIC INTERNATIONAL

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Product Specification Sheet

Cat. #MA-20412 Mouse Monoclonal Anti Human CTNNB1; Ascites SIZE : 100 ul

The protein encoded by this gene is part of a complex of proteins that constitute adherens junctions (AJs). AJs are necessary for the creation and maintenance of epithelial cell layers by regulating cell growth and adhesion between cells. The encoded protein also anchors the actin cytoskeleton and may be responsible for transmitting the contact inhibition signal that causes cells to stop dividing once the epithelial sheet is complete. Finally, this protein binds to the product of the APC gene, which is mutated in adenomatous polyposis of the colon. The distinct peripheral cytosolic proteins, alpha, beta and gamma catenin (102, 94 and 86 kDa) are found in many tissues and bind to the conserved cytoplasmic tail domain of the cell adhesion cadherins. Catenins link E cadherin to other integral membrane or cytoplasmic proteins and are modulated by Wnt1 proto oncogene. The central core region of beta catenin is involved in mediation of cadherin catenin complex interaction with EGFR. Beta-Catenin-mediated signalling is involved at several stages of vertebrate neural development.

Source of Antigen and Antibodies

Antigen	Purified recombinant fragment of human CTNNB1 expressed in *E. Coli*.
Ab Host/type	Balb/c **mouse**. IgG1 Ascetic fluid containing 0.05% sodium azide.
2-Ab	Goat Anti-mouse IgG-HRP conjugate Cat # 40320 (AP, biotin, FITC conjugates also available)
-ve control IgG	Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as –ve control

Isotype controls:

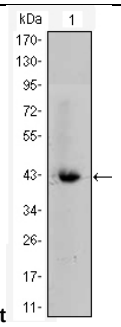
Catalog#	ProdDescription
20102-101	Mouse IgG1 isotype control, purified
20102-101-APC	Mouse IgG1-APC conjugate (isotype)
20102-101-B	Mouse IgG1-Biotin conjugate (isotype)
20102-101-F	Mouse IgG1-FITC conjugate (isotype)
20102-101-FP	Mouse IgG1-FITC-PE conjugate (isotype)
20102-101-HP	Mouse IgG1-HRP conjugate (isotype)
20102-101-PC5	Mouse IgG1-PE-Cy5 conjugate (isotype)
20102-101-PE	Mouse IgG1-PE conjugate (isotype control)

Suggested Dilutions:

Western blot	1:500 – 1:2000
Immunohistochemistry (IHC):	1:200 – 1:1000
Immunocytochemistry (ICC):	1:200 – 1:1000
Flow cytometry (FCM):	1:200 – 1:400
ELISA	1:5000 – 1:100000

Form: Antibodies are supplied in PBS, pH 7.5, 0.05% azide and 0.1% BSA in liquid (0.5-1 mg/ml) or lyophilized in the same buffer. Reconstitute powder in 100 ul water or PBS. Store at -20ºC or below is suitable size Aliquotes.

Shipping: 4ºC for solutions and room temp for powder.



Western Blot

Figure 1: Western blot analysis using CTNNB1 mouse mAb against CTNNB1-hIgGFc transfected HEK293 cell lysate.

Immunofluorescence analysis

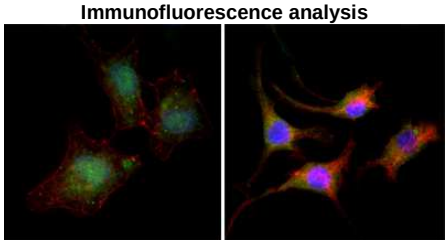


Figure 3: Immunofluorescence analysis of A549 (left) and SK-BR-3 (right) cells using CTNNB1 mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

Flow cytometric

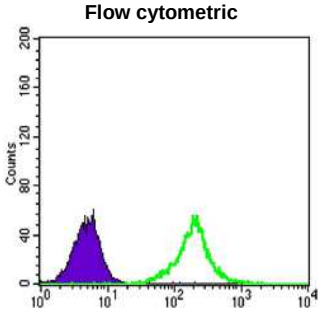


Figure 4: Flow cytometric analysis of A549 cells using CTNNB1 mouse mAb (green) and negative control (purple).

Immunohistochemical analysis

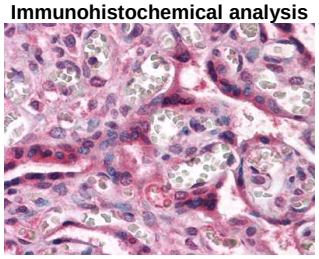


Figure 2: Immunohistochemical analysis of paraffin-embedded human Placenta tissues using CTNNB1 mouse mAb

References:

Cancer Gennet Cytogenet. 2008. 187(1):12-8 Hepatobiliary Pancreat Dis Int. 2008. 7(5):490-6

**All products are for In vitro research use only.*

Related material available from ADI

MA-20412 150826V

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