



## CTNNB1 Mouse Monoclonal Antibody

E10-20412

**Background:** 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.

**Catalog Number:** E10-20412

**Amount:** 100µg/100µl

**Clone Number:** 4D5

**Species:** Mouse IgG1

**MW:** 85kDa

**Aliases:** CTNNB; FLJ25606; FLJ37923; DKFZp686D02253; CTNNB1

**Entrez Gene:** 1499

**Immunogen:** Purified recombinant fragment of human CTNNB1 expressed in E. Coli.

**Storage:** Store at 4 °C for long term storage, store at -20 °C for short term storage.

**Formulation:** Ascitic fluid containing 0.03% sodium azide.

**Species Reactivities:** Human

**Tested Applications:** WB,IHC,IF,FC,ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

**Application notes:** WB 1/500 - 1/2000,IHC.1/200 - 1/1000.IF.1/200 - 1/1000.FC.1/200 - 1/400.ELISA. Propose dilution 1/10000.

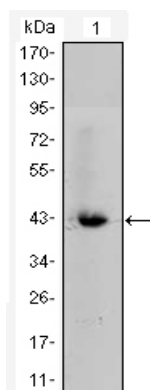


Figure 1. Western blot analysis using CTNNB1 mouse mAb against CTNNB1-hlgGf transfected HEK293 cell lysate.

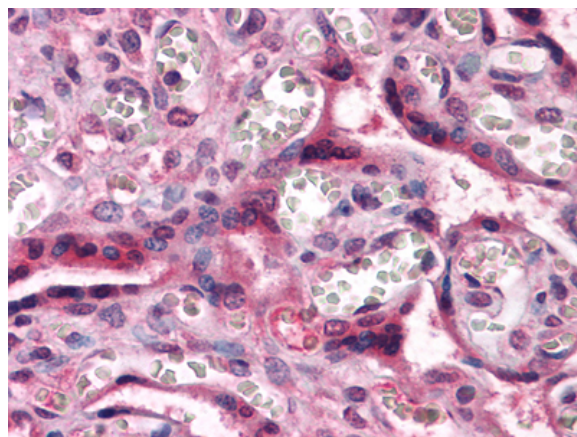


Figure 2. Immunohistochemical analysis of paraffin-embedded human Placenta tissues using CTNNB1 mouse mAb

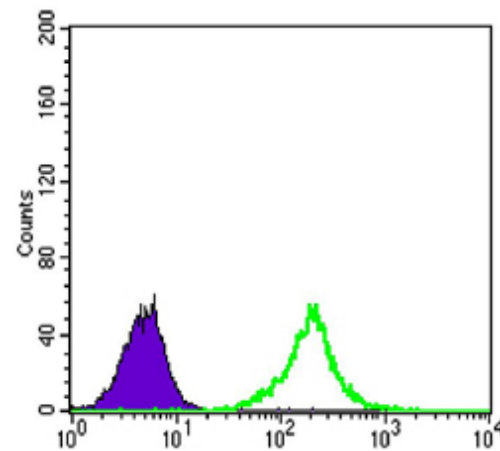


Figure 4. Flow cytometric analysis of A549 cells using CTNNB1 mouse mAb (green) and negative control (purple).

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