

DATASHEET

Beta-catenin Mouse Monoclonal Antibody(C2093)

CAT. NO. AMA01705

KEY FEATURES

| | | | |
|---------------|---|---------------|---------------------|
| Target | Beta-catenin | Source / Host | Mouse |
| Reactivity | Human, Mouse, Rat | Clonality | Monoclonal |
| Applications | WB, IHC | Conjugation | Unconjugated |
| Form / Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. | | Storage at -20°C |

BACKGROUND

Key downstream component of the canonical Wnt signaling pathway . In the absence of Wnt, forms a complex with AXIN1, AXIN2, APC, CSNK1A1 and GSK3B that promotes phosphorylation on N-terminal Ser and Thr residues and ubiquitination of CTNNB1 via BTRC and its subsequent degradation by the proteasome . In the presence of Wnt ligand, CTNNB1 is not ubiquitinated and accumulates in the nucleus, where it acts as a coactivator for transcription factors of the TCF/LEF family, leading to activate Wnt responsive genes . Also acts as a coactivator for other transcription factors, such as NR5A2 . Promotes epithelial to mesenchymal transition/mesenchymal to epithelial transition (EMT/MET) via driving transcription of CTNNB1/TCF-target genes .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

| | |
|-----|-----------------|
| WB | 1:1000 - 1:2000 |
| IHC | 1:100 - 1:200 |

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

| | |
|-------------------|--|
| Description | Mouse monoclonal antibody to Beta-catenin |
| Specificity | Recognizes endogenous levels of Beta-catenin protein. |
| Antibody Type | Primary antibody |
| Immunogen | KLH-conjugated synthetic peptide encompassing a sequence of human Beta-catenin. The exact sequence is proprietary. |
| Purification | Affinity chromatography |
| Molecular Weight | Predicted: 85 kD; Observed: 92 kD |
| Form/Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| Alternative Names | CTNNB; Catenin beta-1; Beta-catenin |
| Gene Symbol | CTNNB1 |
| Entrez Gene | 1499(Human); 12387(Mouse); 84353(Rat) |
| SwissProt | P35222(Human); Q02248(Mouse); Q9WU82(Rat) |

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

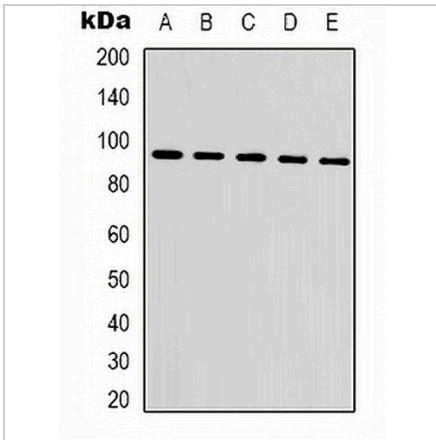
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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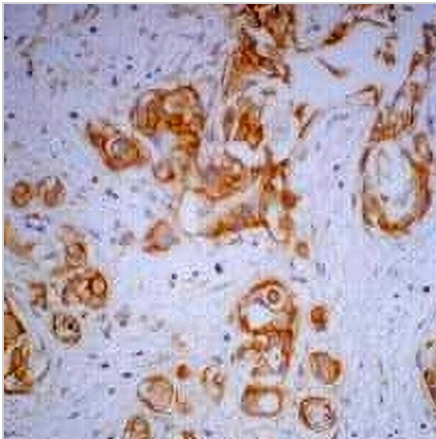
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Western blot analysis of Beta-catenin expression in Hela (A), 293T (B), MCF7 (C), mouse brain (D), rat liver (E) whole cell lysates. (Predicted band size: 85 kD; Observed band size: 92 kD)



Immunohistochemical analysis of Beta-catenin staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.