Human/Mouse/Rat β-Catenin Antibody

Monoclonal Mouse IgG_{2B} Clone # 196621

Catalog Number: MAB1329

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects rhβ-Catenin and endogenous human, mouse and rat β-Catenin in Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 196621
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human β-Catenin Ala2-Leu781 Accession # P35222
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Multiplex Immunofluorescence	15 µg/mL	Paraffin embedded tissue sections of Human Colon Cancer
Immunohistochemistry	8-25 µg/mL	See Below

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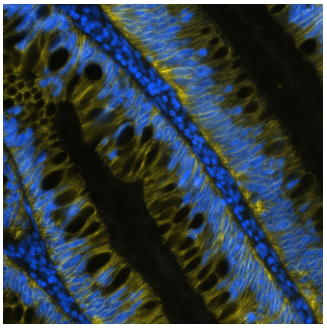
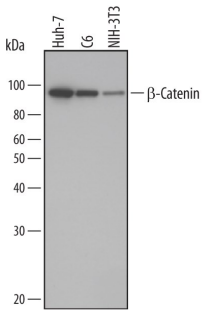
DATA

Multiplex Immunofluorescence



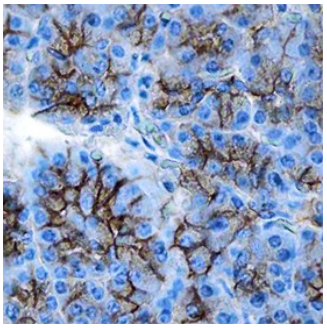
Detection of beta-Catenin in Human Colon Cancer via Multiplex Immunofluorescence staining on COMET™ beta-Catenin was detected in immersion fixed paraffin-embedded sections of human colon cancer using Mouse Anti-Human beta-Catenin Monoclonal Antibody (Catalog # Catalog # MAB1329) at 15 µg/mL at 37° Celsius for 2 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9). Tissue was stained using the Alexa Fluor™ 647 Goat anti-Mouse IgG Secondary Antibody at 1:200 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # DR647MS) and counterstained with DAPI (blue; Lunaphore Catalog # DR100). Specific staining was localized to the cytoplasm and cell membrane. Protocol available in COMET™ Panel Builder.

Western Blot



Detection of Human/Mouse/Rat β-Catenin by Western Blot. Western blot shows lysates of Huh-7 human hepatoma cell line, C6 rat glioma cell line, and NIH-3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human/Mouse/Rat ß-Catenin Monoclonal Antibody (Catalog # MAB1329) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # HAF007). A specific band was detected for ß-Catenin at approximately 95 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

Immunohistochemistry



β-Catenin in Human Pancreas. ß-Catenin was detected in immersion fixed paraffin-embedded sections of human pancreas using Mouse Anti-Human/Mouse/Rat ß-Catenin Monoclonal Antibody (Catalog # MAB1329) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # Catalog # CTS002) and counter-stained with hematoxylin (blue). Specific staining was localized to plasma membranes. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

β-Catenin is a cadherin-associated protein that is involved in the regulation of cell adhesion. It also acts as a transcriptional co-activator in the nucleus and is involved in the canonical Wnt signal transduction pathway.

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