beta Catenin Recombinant Rabbit Monoclonal Antibody (021)

Product Details	
Size	100 µL
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	HEK293 cells
Class	Recombinant Monoclonal
Type	Antibody
Clone	021
Conjugate	Unconjugated
Immunogen	Recombinant Human beta-Catenin/CTNNB1 protein (Met1-Leu781)
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	no preservative
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2785114

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:2,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:500	-
Immunocytochemistry (ICC/IF)	1:20-1:100	-
Flow Cytometry (Flow)	1:25-1:100	-
ELISA (ELISA)	1:5,000-1:10,000	-

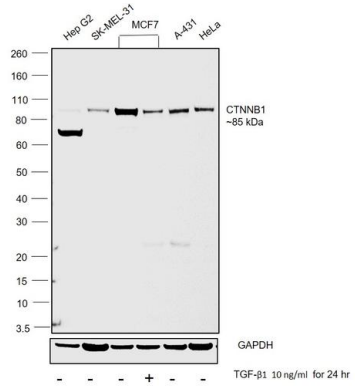
Product Specific Information

This product is preservative free. It is recommended to add sodium azide to avoid contamination (final concentration 0.05% -0.1%).

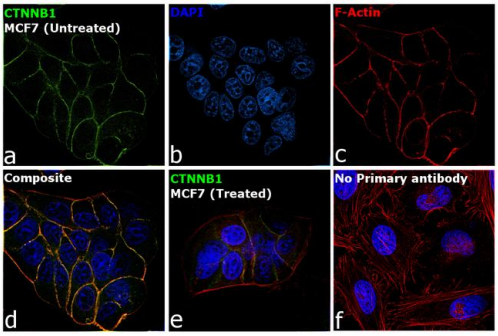
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

This antibody has specificity for Human beta-Catenin/CTNNB1.

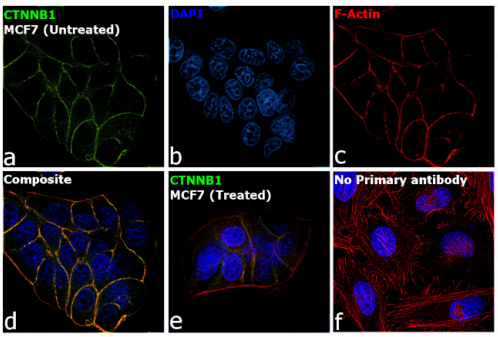
Product Images For beta Catenin Recombinant Rabbit Monoclonal Antibody (021)



beta Catenin Antibody (MA5-29202) in WB
Western blot was performed using Anti-beta Catenin Recombinant Rabbit Monoclonal Antibody (Product # MA5-29202) and a 85 kDa band corresponding to Catenin beta-1 was observed across the cell lines tested except Hep G2 which contain an exon 3-4 truncation mutation in the CTNNB1 gene corresponding to deletion of amino acids 25-140 in the ß-catenin protein. Whole cell extracts (30 µg lysate) of Hep G2 (Lane 1), SK-MEL-31 (Lane 2), MCF7 (Lane 3), MCF7 treated with 10 ng/mL of TGF-ß1 for 24 hours (Lane 4), A-431 (Lane 5) and HeLa (Lane 6) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # LC2001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



beta Catenin Antibody (MA5-29202)
Detection of altered subcellular localization of the target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis using beta Catenin Recombinant Rabbit Monoclonal Antibody (Product # MA5-29202), shows decreased expression of catenin beta-1 upon TGF-ß1 treatment in MCF7 cells. {TM}



beta Catenin Antibody (MA5-29202) in ICC/IF
Immunofluorescence analysis of Catenin beta-1 was performed using 70% confluent log phase MCF7 10 ng/mL of TGF-ß1 for 24 hours. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with beta Catenin Recombinant Rabbit Monoclonal Antibody (Product # MA5-29202) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034), (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300 dilution). Panel d represents the merged image showing membrane localization. Panel e represents decreased expression of Beta catenin -1 in MCF7 cells treated with 10 ng/mL of TGF-ß1 for 24 hours. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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