beta Catenin Monoclonal Antibody (E247)

Product Details	
Size	1 mL
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Monoclonal
Type	Antibody
Clone	E247
Conjugate	Unconjugated
Immunogen	A synthetic peptide derived from near the N-terminus of human beta-catenin
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	tissue culture supernatant
Contains	0.1% sodium azide
Storage conditions	4° C
RRID	AB_10985068

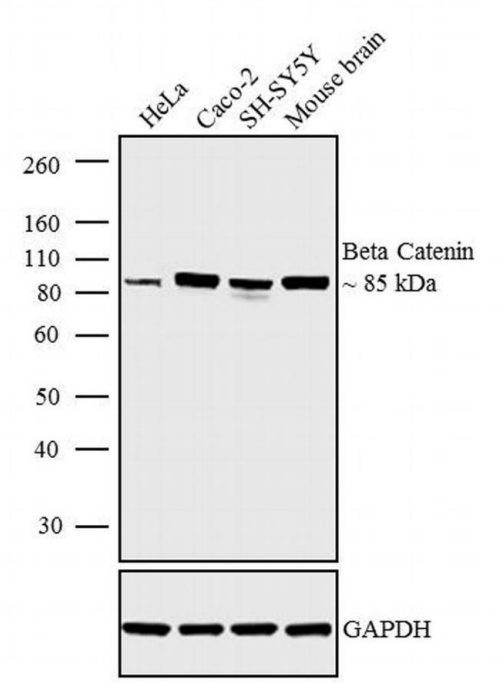
Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	-
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:125	2 Publications
Immunocytochemistry (ICC/IF)	1:250	-

Product Specific Information

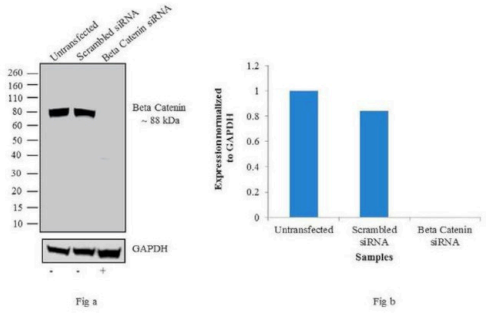
MA5-14461 targets beta-Catenin in IHC (P) applications and shows reactivity with Human samples.

The MA5-14461 immunogen is a synthetic peptide derived from near the N-terminus of human beta-catenin.

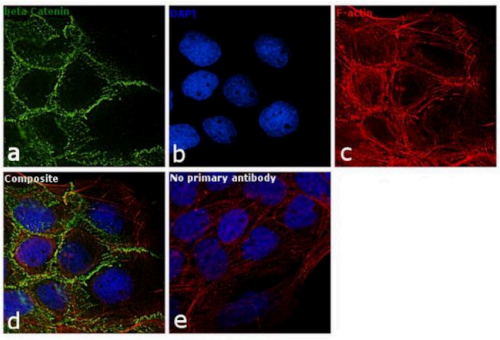
Product Images For beta Catenin Monoclonal Antibody (E247)



beta Catenin Antibody (MA5-14461) in WB
Western blot analysis was performed on membrane enriched extracts (30 µg lysate) of HeLa (Lane 1), Caco-2 (Lane 2), SH-SY5Y (Lane 3) and tissue extract of Mouse brain (Lane 4). The blot was probed with Rabbit Anti-beta Catenin Monoclonal Antibody (Product # MA5-14461, 1:500) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). An 85 kDa band corresponding to beta Catenin was observed across the cell lines and tissue tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



beta Catenin Antibody (MA5-14461)
Knockdown of beta Catenin was achieved by transfecting A-431 cells with beta Catenin specific siRNA (Silencer® select Cat # s438). Immunofluorescence analysis was performed on A431 cells (untransfected, panel a,d), transfected with non-specific scrambled siRNA (panels b,e) and transfected with beta Catenin specific siRNA (panel c,f) Cells were fixed, permeabilized, and labelled with beta Catenin Rabbit monoclonal Antibody (Product # MA5-14461, 1:250), followed by Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Nuclei (blue) were stained using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938), and Rhodamine Phalloidin (Product # R415, 1:300) was used for cytoskeletal F-actin (red) staining. Loss of signal was observed upon siRNA mediated knockdown (panel c,f) confirming specificity of the antibody to beta Catenin(green). The images were captured at 60X magnification. {KD}



beta Catenin Antibody (MA5-14461) in ICC/IF
Immunofluorescence analysis of beta Catenin was performed using 70% confluent log phase A431 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with beta Catenin (E247) Rabbit monoclonal antibody (Product # MA5-14461) at 1: 250 in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing membrane localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.

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3 References

Immunohistochemistry (1)

Diagnostic pathology

Serous carcinoma arising from uterine adenomyosis/adenomyotic cyst of the cervical stump: a report of 3 cases.

"MA5-14461 was used in immunohistochemistry to study 3 cases of uterine adenomyosis/adenomyotic cysts of the cervical stump leading to serous carcinoma"

Authors: Lu B,Chen Q,Zhang X,Cheng L

Year
2016

Dilution
1:400

Immunohistochemistry (Paraffin) (2)

PloS one

A mouse model of human primitive neuroectodermal tumors resulting from microenvironmentally-driven malignant transformation of orthotopically transplanted radial glial cells.

"MA5-14461 was used in immunohistochemistry - paraffin section to describe a mouse model to study primitive neuroectodermal tumors"

Authors: Malchenko S,Sredni ST,Hashimoto H,Kasai A,Nagayasu K,Xie J,Margaryan NV,Seiriki K,Lulla RR,Seftor RE, Pachman LM,Meltzer HY,Hendrix MJ,Soares MB

Year
2016

Species
Human

Dilution
1:50

Hepatology research : the official journal of the Japan Society of Hepatology

Characterization of hepatocellular adenoma based on the phenotypic classification: The Kanazawa experience.

"MA5-14461 was used in immunohistochemistry - paraffin section to examine hepatocellular adenoma subgroups in Japanese women"

Authors: Sasaki M,Yoneda N,Kitamura S,Sato Y,Nakanuma Y

Year
2011

Species
Human

Dilution
1:1

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