

# beta Catenin Monoclonal Antibody (15B8), eBioscience™

## Product Details

Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	15B8
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_1724004

Applications	Tested Dilution	Publications
Western Blot (WB)	1-5 µg/mL	4 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	Assay-Dependent	1 Publication
Immunoprecipitation (IP)	Assay-Dependent	-
Miscellaneous PubMed (Misc)	-	1 Publication

## Product Specific Information

**Description:** The 15B8 monoclonal antibody reacts with human and mouse beta-catenin, one member of a family of catenins, which are intracellular proteins that interact with cadherins to mediate cellular adhesion. More specifically, beta-catenin binds to the cytoplasmic tail of E-cadherin. In addition, this molecule is a component of the canonical Wnt signaling pathway. In the absence of Wnt binding its receptor, beta-catenin is phosphorylated and resides in the cytoplasm where it is eventually targeted for degradation by ubiquitination. Upon Wnt binding, beta-catenin becomes dephosphorylated, translocates to the nucleus, and modulates gene expression in partnership with the transcription factors T cell factor (TCF) and lymphocyte enhancer binding factor (LEF). Expression of beta-catenin is found in a wide variety of non-immune and immune tissues, including thymocytes and T and B lymphocytes. The Wnt and beta-catenin signaling pathway has been demonstrated to play a crucial role in the development of T, B, and hematopoietic stem cells.

**Applications Reported:** This 15B8 antibody has been reported for use in intracellular staining followed by flow cytometric analysis, immunoprecipitation, western blotting, and immunohistochemical staining of formalin-fixed paraffin embedded tissue sections. (Fluorochrome conjugated 15B8 is recommended for use in intracellular flow cytometry.).

**Applications Tested:** This 15B8 antibody has been tested by western blot analysis on reduced cell lysates prepared from the Jurkat cell line. This antibody can be used at 1-5 µg/mL. This antibody has been tested by immunohistochemistry of formalin-fixed paraffin embedded human tissue using low or high pH antigen retrieval and can be used at less than or equal to 5 µg/mL.

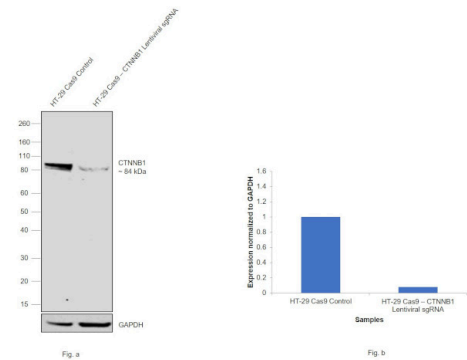
It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For beta Catenin Monoclonal Antibody (15B8), eBioscience™

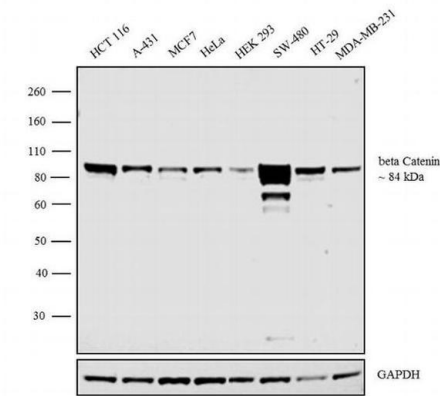


beta Catenin Antibody (14-2567-82)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated genome editing of target protein. A reduced signal was observed for the target protein in HT-29 CAS9 cells transduced with CTNNB1 Lentiviral sgRNA compared to CAS9 control cell line using Anti-beta Catenin Monoclonal Antibody (15B8), eBioscience™ (Product # 14-2567-82) {KO}

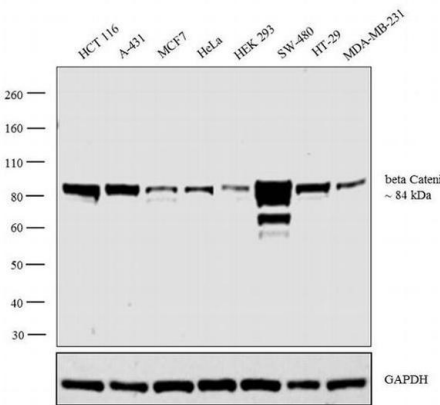
beta Catenin Antibody (14-2567-82) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HCT 116 (Lane 1), A-431 (Lane 2), MCF7 (Lane 3), HeLa (Lane 4), HEK 293 (Lane 5), SW-480 (Lane 6), HT-29 (Lane 7) and MDA-MB-231 (Lane 8). The blot was probed with beta Catenin Monoclonal Antibody (Product # 14-2567-80, 1: 250 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 85 kDa band corresponding to beta Catenin was observed across the cell lines tested.



beta Catenin Antibody (14-2567-82) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HCT 116 (Lane 1), A-431 (Lane 2), MCF7 (Lane 3), HeLa (Lane 4), HEK 293 (Lane 5), SW-480 (Lane 6), HT-29 (Lane 7) and MDA-MB-231 (Lane 8). The blot was probed with beta Catenin Monoclonal Antibody (Product # 14-2567-82, 2µg /mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg /mL, 1:4000 dilution). A 85 kDa band corresponding to beta Catenin was observed across the cell lines tested.



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## Western Blot (4)

<p>Frontiers in oncology</p> <p><b>ALDH<sup>HIGH</sup> Population Is Regulated by the AKT/-Catenin Pathway in a Cervical Cancer Model.</b></p> <p>"14-2567-82 was used in Western Blot, Immunocytochemistry to show that the increase in ALDH<sup>HIGH</sup> cell percentage is reverted by -catenin knockdown in a cervical cancer model."</p> <p>Authors: Sarabia-Sánchez MÂ,Alvarado-Ortiz E,Toledo-Guzman ME,García-Carrancá A,Ortiz-Sánchez E</p>	<p>Year 2020</p> <p>Species Human</p> <p>Dilution 1:200</p>
<p>Frontiers in immunology</p> <p><b>Trypanosoma cruzi Exploits Wnt Signaling Pathway to Promote Its Intracellular Replication in Macrophages.</b></p> <p>"14-2567 was used in Western Blotting to determine the role of Wnt signalling pathway in macrophages in modulating the inflammatory/tolerogenic response during Trypanosoma cruzi infection."</p> <p>Authors: Volpini X,Ambrosio LF,Fozzatti L,Insfran C,Stempin CC,Cervi L,Motran CC</p>	<p>Year 2019</p> <p>Species Mouse</p>

[View more WB references on thermofisher.com](#)

## Immunohistochemistry (1)

<p>European journal of histochemistry : EJH</p> <p><b>Characterization of cytoskeleton features and maturation status of cultured human iPSC-derived cardiomyocytes.</b></p> <p>"Published figure using beta Catenin monoclonal antibody (Product # 14-2567-82) in Immunocytochemistry"</p> <p>Authors: Zuppinger C,Gibbons G,Dutta-Passecker P,Segiser A,Most H,Suter TM</p>	<p>Year 2017</p>
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## Immunocytochemistry (3)

<p>Frontiers in oncology</p> <p><b>ALDH<sup>HIGH</sup> Population Is Regulated by the AKT/-Catenin Pathway in a Cervical Cancer Model.</b></p> <p>"14-2567-82 was used in Western Blot, Immunocytochemistry to show that the increase in ALDH<sup>HIGH</sup> cell percentage is reverted by -catenin knockdown in a cervical cancer model."</p> <p>Authors: Sarabia-Sánchez MÂ,Alvarado-Ortiz E,Toledo-Guzman ME,García-Carrancá A,Ortiz-Sánchez E</p>	<p>Year 2020</p> <p>Species Human</p> <p>Dilution 1:200</p>
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## More applications with references on thermofisher.com

- Flow (1)
- Misc (1)

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