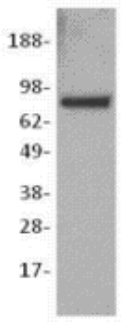
Anti-Human/Mouse beta-Catenin Purified

Catalog Number: 14-2567
For Research Use Only. Not for use in diagnostic procedures.



Cell lysates prepared from the Jurkat cell line under reducing conditions were immunoblotted with 5 ug/mL of Anti-Human/Mouse beta-Catenin Purified. Bands were visualized using Anti-Mouse IgG HRP.

Product Information

Contents: Anti-Human/Mouse beta-Catenin Purified
REF **Catalog Number:** 14-2567
Clone: 15B8
Concentration: 0.5 mg/mL
Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

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 & 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 flow cytometric analysis, immunoprecipitation, and immunoblotting (WB).

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

References

Xu M, Sharma A, Hossain MZ, Wiest DL, Sen JM. Sustained expression of pre-TCR induced beta-catenin in post-beta-selection thymocytes blocks T cell development. J Immunol. 2009 Jan 15;182(2):759-65.

Staal FJ, Sen JM. The canonical Wnt signaling pathway plays an important role in lymphopoiesis and hematopoiesis. Eur J Immunol. 2008 Jul;38(7):1788-94. Review.

Xu, Y, Banerjee D, Huelsken J, Birchmeier W, and Sen JM. Deletion of beta-catenin impairs T cell development. Nat. Immunol. 2003 4:1177-1182.

Hoschuetzky H, Aberle H, Kemler R. Beta-catenin mediates the interaction of the cadherin-catenin complex with epidermal growth factor receptor. J Cell Biol. 1994 Dec;127(5):1375-80.

Related Products

14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)

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