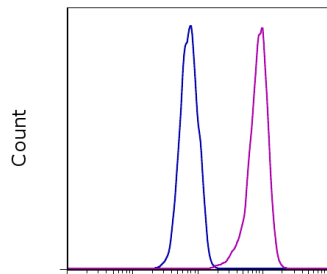


Anti-Human/Mouse beta-Catenin eFluor[®] 660 (Alexa Fluor[®] 647 Replacement)

Catalog Number: 50-2567

RUO: For Research Use Only. Not for use in diagnostic procedures.



beta-Catenin eFluor 660

Intracellular staining of Jurkat cells with Mouse IgG1 K Isotype Control eFluor[®] 660 (cat. 50-4714) (blue histogram) or Anti-Human/Mouse beta-Catenin eFluor[®] 660 (purple histogram) using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol. Total cells were used for analysis.

Product Information

Contents: Anti-Human/Mouse beta-Catenin eFluor[®] 660 (Alexa Fluor[®] 647 Replacement)

REF **Catalog Number:** 50-2567

Clone: 15B8

Concentration: 0.2 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. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium 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 intracellular staining followed by flow cytometric analysis.

Applications Tested

This 15B8 antibody has been tested by intracellular staining and flow cytometric analysis of the Jurkat cell line using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523). This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor[®] 660 is a replacement for Alexa Fluor[®] 647. eFluor[®] 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

References

Xu M, Sharma A, Hossain MZ, Wiest DL, Sen JM. Sustained expression of pre-TCR induced beta-catenin in post-

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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

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

50-4714 Mouse IgG1 K Isotype Control eFluor® 660 (P3.6.2.8.1)

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