

# beta Catenin Monoclonal Antibody (15B8), Alexa Fluor 488, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotope	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Alexa Fluor 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	15B8
Conjugate	Alexa Fluor® 488
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10804034

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	-
Immunocytochemistry (ICC)	-	1 Publication
Immunofluorescence (IF)	-	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.

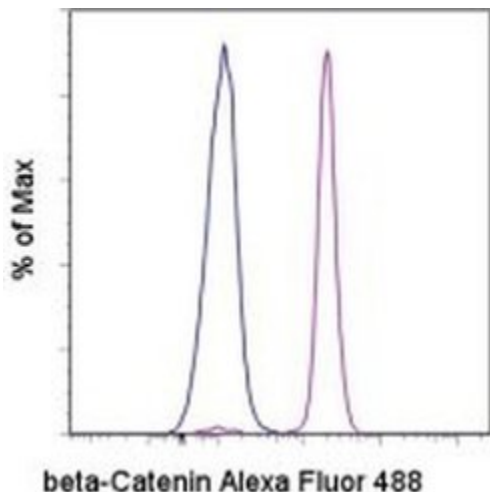
**Applications Tested:** This 15B8 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of Jurkat cell line using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523). This can be used at 5 µL (0.25 µg) per test.

A test is defined as the amount ( $\mu\text{g}$ ) of antibody that will stain a cell sample in a final volume of 100  $\mu\text{L}$ . Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2  $\mu\text{m}$  post-manufacturing filtered.

## Product Images For beta Catenin Monoclonal Antibody (15B8), Alexa Fluor 488, eBioscience™



### beta Catenin Antibody (53-2567-42) in Flow

Intracellular staining of the Jurkat cell line using the Foxp3 Staining Buffer Set (Product # 00-5523-00) with Mouse IgG1 K Isotype Control Alexa Fluor® 488 (Product # 53-4714-42) (blue histogram) or Anti-Human/Mouse beta-Catenin Alexa Fluor® 488 (purple histogram).

## 2 References

### Immunocytochemistry (1)

Cell death and disease

#### Blocking the epithelial-to-mesenchymal transition pathway abrogates resistance to anti-folate chemotherapy in lung cancer.

"53-2567 was used in Immunofluorescence to show that chemoresistance to pemetrexed is associated with a stem cell-like phenotype characterized by an enriched stem cell gene signature."

Authors: Liang SQ, Marti TM, Dorn P, Froment L, Hall SR, Berezowska S, Kocher G, Schmid RA, Peng RW

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2015

### Immunofluorescence (1)

Cell death and disease

#### Blocking the epithelial-to-mesenchymal transition pathway abrogates resistance to anti-folate chemotherapy in lung cancer.

"53-2567 was used in Immunofluorescence to show that chemoresistance to pemetrexed is associated with a stem cell-like phenotype characterized by an enriched stem cell gene signature."

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