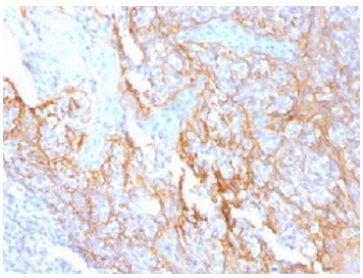
Beta Catenin Antibody [clone 15B8] (V3248)

Catalog No.	Formulation	Size
V3248-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3248-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3248SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

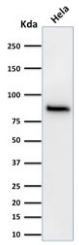
Citations (20)

Bulk quote request

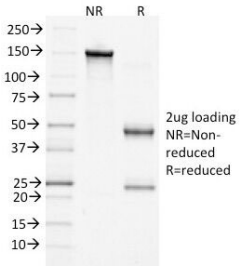
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	15B8
Purity	Protein G affinity chromatography
UniProt	P35222
Localization	Cell surface, cytoplasmic, cell junctions
Applications	Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 1-3ug/ml Western Blot : 2-4ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Beta Catenin antibody is available for research use only.



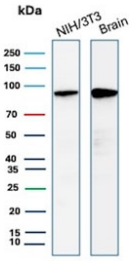
Beta Catenin Antibody Clone 15B8 Immunohistochemistry. IHC testing of FFPE human tonsil tissue with Beta Catenin antibody (clone 15B8). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 10-20 min.



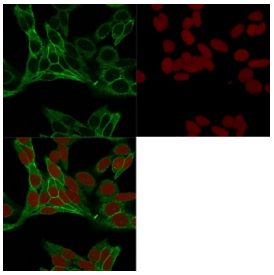
Beta Catenin Antibody Clone 15B8 WB. Western blot testing of human HeLa cell lysate with Beta Catenin antibody (clone 15B8). Predicted molecular weight ~85 kDa, but routinely observed at 90-95 kDa.



SDS-PAGE Analysis of Purified, BSA-Free Beta Catenin Antibody (clone 15B8). Confirmation of Integrity and Purity of the Antibody.



Beta Catenin Antibody Clone 15B Mouse / Human WB. Western blot testing of mouse NIH 3T3 and human brain tissue lysate with Beta Catenin antibody (clone 15B8). Predicted molecular weight ~85 kDa, but routinely observed at 90-95 kDa.



Beta Catenin Antibody Clone 15B8 Immunofluorescence. IF staining of human HeLa cells with Cytokeratin 18 antibody (clone 15B8, green) and Reddot nuclear stain (red).

Description

Beta Catenin antibody is widely used for research on cellular adhesion and Wnt pathway signaling. Beta catenin, encoded by CTNNB1, is a versatile protein that stabilizes cell cell contacts and also acts as a transcriptional regulator. This dual functionality makes it central to processes ranging from embryonic development to tumorigenesis. Its dysregulation is strongly associated with oncogenic transformation and uncontrolled proliferation.

In adherens junctions, beta catenin interacts with cadherins and alpha catenin to maintain epithelial structure and facilitate communication between cells. When signaling pathways are activated, beta catenin can accumulate in the cytoplasm and translocate into the nucleus. There it interacts with transcription factors to activate genes critical for cell cycle progression and survival. This dynamic shuttling between structural and signaling roles highlights why beta catenin is a major regulator of cellular homeostasis.

The Beta Catenin antibody clone 15B8 is recognized for its reliable specificity and performance. Clone 15B8 has been employed to examine how beta catenin localization changes under different signaling conditions, shedding light on pathways controlling proliferation and differentiation. Researchers use this antibody to study embryonic development, tissue regeneration, and the mechanisms underlying oncogenic transformation. The robustness of clone 15B8 ensures dependable results across diverse experimental models.

Beta catenin dysregulation is commonly driven by mutations that stabilize the protein or impair its degradation. In colorectal cancer and other malignancies, these changes lead to persistent nuclear signaling and enhanced expression of growth promoting genes. Studies employing clone 15B8 have been instrumental in understanding how abnormal Wnt signaling drives tumor initiation and progression. Beyond oncology, beta catenin is also critical for bone formation, cardiovascular development, and neural patterning, emphasizing its diverse biological relevance.

NSJ Bioreagents offers this Beta Catenin antibody to researchers investigating adhesion, signaling, and cancer. The protein is also referenced by alternate names including CTNNB1 antibody, cadherin associated protein beta antibody, armadillo protein antibody, and cell adhesion molecule associated protein antibody. Integrating these terms ensures recognition of the many ways scientists describe this versatile regulator in their studies.

This antibody complements our Beta-Catenin Antibody / CTNNB1 Antibody (clone CTNNB1/2030R) for broader analysis of CTNNB1 expression and localization.

Application Notes

Optimal dilution of the Beta Catenin antibody to be determined by the researcher.

Immunogen

Chicken recombinant protein was used as the immunogen for the Beta Catenin antibody.

Storage

Store the Beta Catenin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).