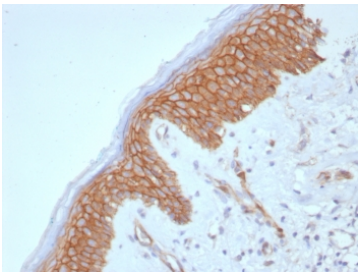
Beta Catenin Antibody CTNNB1/8280R / CTNNB1 [clone CTNNB1/8280R] (V4979)

Catalog No.	Formulation	Size
V4979-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4979-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4979SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

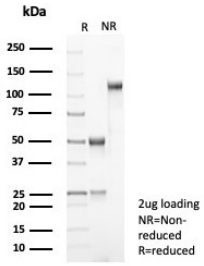
Recombinant RABBIT MONOCLONAL

Bulk quote request

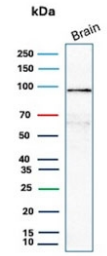
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Guinea pig
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	CTNNB1/8280R
Purity	Protein A affinity
UniProt	P35222
Localization	Cell surface, Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT (Human) Western blot: 2-4ug/ml (Human/Mouse/Rat/Rabbit/Hamster/Guinea pig)
Limitations	This Beta Catenin Antibody CTNNB1/8280R is available for research use only.



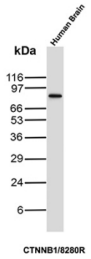
Beta Catenin Antibody CTNNB1/8280R Human Skin Immunohistochemistry. IHC staining of FFPE human skin tissue with Beta-Catenin antibody (clone CTNNB1/8280R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



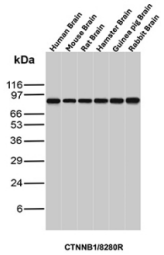
SDS-PAGE analysis of purified, BSA-free Beta-Catenin (CTNNB1/8280R) as confirmation of integrity and purity.



Western blot testing of human brain tissue lysate with Beta Catenin Antibody CTNNB1/8280R. Predicted molecular weight ~85 kDa, but routinely observed at 90-95 kDa.



Beta Catenin Antibody CTNNB1/8280R Multi-Species Brain WB. Western blot analysis of brain tissue lysates from human, mouse, rat, hamster, guinea pig, and rabbit using Beta Catenin Antibody (clone CTNNB1/8280R) detects a consistent band at approximately 90-95 kDa across all species, aligning with the predicted molecular weight of Catenin beta-1 / CTNNB1 at ~85 kDa with a characteristic upward shift during SDS-PAGE. The conserved banding pattern supports cross-species detection of CTNNB1 and is consistent with phosphorylation-associated modulation of beta-catenin electrophoretic mobility in neural tissue.



Beta Catenin Antibody CTNNB1/8280R Human Brain WB. Western blot analysis of human brain lysate using Beta Catenin Antibody (clone CTNNB1/8280R) detects a distinct band at approximately 90-95 kDa, consistent with the predicted molecular weight of Catenin beta-1 / CTNNB1 at ~85 kDa with a characteristic upward shift during SDS-PAGE. This migration pattern aligns with phosphorylation-associated modulation of beta-catenin and supports reliable detection of CTNNB1 in neural tissue.

Description

Beta-catenin associates with the cytoplasmic portion of E-cadherin, which is necessary for the function of E-cadherin as an adhesion molecule. In normal tissues, beta-catenin is localized to the membrane of epithelial cells, consistent with its role in the cell adhesion complex. In breast ductal neoplasia, beta-catenin is usually localized in cellular membranes. However, in lobular neoplasia, a marked redistribution of beta-catenin throughout the cytoplasm results in a diffuse cytoplasmic pattern. Immuno-staining of beta-catenin and E-cadherin is helps in the accurate identification of ductal and lobular neoplasms, including a distinction between low-grade ductal carcinoma in situ (DCIS) and lobular carcinoma. Additionally, some rectal and gastric adenocarcinomas demonstrate diffuse cytoplasmic beta-catenin staining and a lack of membranous staining, mimicking the staining pattern observed with lobular breast carcinomas.

This CTNNB1 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 CTNNB1/8280R should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 1-200) from the human protein was used as the immunogen for the Beta Catenin Antibody CTNNB1/8280R.

Storage

Aliquot the Beta Catenin Antibody CTNNB1/8280R and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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