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3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Catenin, beta (p120) CTNNB1 Monoclonal Antibody

Catalog Number: M00004

About CTNNB1

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.

Overview

Product Name	Anti-Catenin, beta (p120) CTNNB1 Monoclonal Antibody
Reactive Species	Chicken, Cow, Dog, Human, Mouse, Rat
Description	Boster Bio Anti-Catenin, beta (p120) CTNNB1 Monoclonal Antibody (Catalog # M00004). Tested in Flow Cytometry, IF, WB, IHC applications. This antibody reacts with Human, Mouse, Rat, Cow, Dog, Chicken.
Conjugate	Biotin
Application	Flow Cytometry, IF, IHC, WB
Clonality	Monoclonal Clone: 15B8
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P35222

Technical Details

Immunogen	Recombinant chicken beta-catenin
Predicted Reactive Species	Chimpanzee
Isotype	IgG1, kappa
Form	Liquid

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Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Flow Cytometry (1-2ug/million cells) Immunofluorescence (1-2ug/ml) Western Blot (1-2ug/ml) Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

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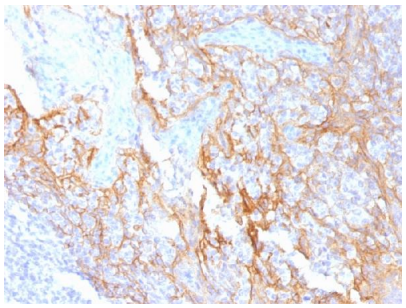
Anti-Catenin, beta (p120) CTNNB1 Monoclonal Antibody (M00004) Images



Formalin-fixed, paraffin-embedded human tonsil stained with Anti-Beta-Catenin (p120) Monoclonal Antibody (15B8).

13 Publications Citing This Product

1. PubMed ID: 31171012, Xu C,Liu F,Xiang G,Cao L,Wang S,Liu J,Meng Q,Xu D,Lv S,Jiao J,Niu Y.beta-Catenin nuclear localization positively feeds back on EGF/EGFR-attenuated AJAP1 expression in breast cancer.J Exp Clin Cancer Res.2019 Jun 6;38(1):238.doi:10.1186/s13046-019-1252-6.PMID:31171012;PMCID:PMC6554977.

2. PubMed ID: 25995040, Prolonged overexpression of Wnt10b induces epidermal keratinocyte transformation through activating EGF pathway

3. PubMed ID: 25286828, Combination of lithium chloride and pEGFP-N1-BmK CT effectively decreases proliferation and migration of C6 glioma cells

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