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12-1093: Anti-Catenin, beta (CTNNB1) Recombinant Rabbit Monoclonal Antibody (Clone:CTNNB1/2030R)

Clonality :	Monoclonal
Clone Name :	CTNNB1/2030R
Application :	FACS,IF,WB,IHC
Reactivity :	Human
Gene :	CTNNB1
Gene ID :	1499
Uniprot ID :	P35222
Format :	Purified
Alternative Name :	Cadherin associated protein, beta 1 88kDa, Catenin beta-1, CATNB, CHBCAT, CTNNB1
Isotype :	Rabbit IgG, kappa
Immunogen Information :	Recombinant full-length human CTNNB1 protein

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 throÂµghout 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.

Product Info

Amount :	20 µg / 100 µg
Purification :	Protein A/G
Content :	200µg/ml of recombinant MAb purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	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.

Application Note

Flow Cytometry (1-2Ã‚Âµg/million cells); Immunofluorescence (1-2Ã‚Âµg/ml); Western Blot (1-2Ã‚Âµg/ml);,Immunohistochemistry (Formalin-fixed) (1-2Ã‚Âµg/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),

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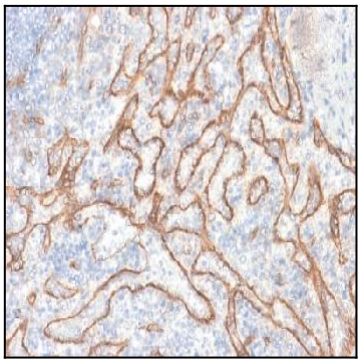

Figure 1: Formalin-fixed, paraffin-embedded human Tonsil stained with Beta-Catenin Recombinant Rabbit Monoclonal Antibody (CTNNB1/2030R).

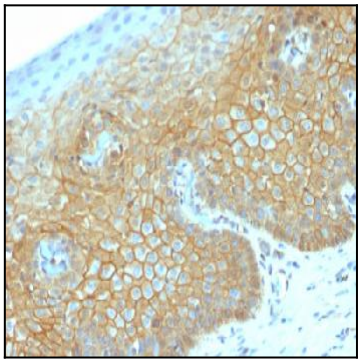

Figure 2: Formalin-fixed, paraffin-embedded human Cervical Carcinoma stained with Beta-Catenin Recombinant Rabbit Monoclonal Antibody (CTNNB1/2030R).

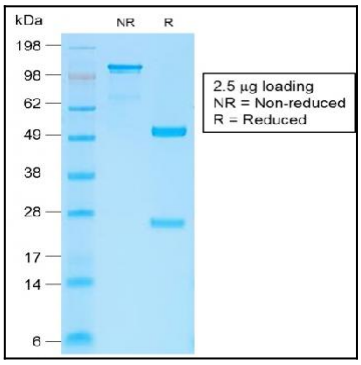

Figure 3:SDS-PAGE Analysis of Purified Beta-Catenin Recombinant Rabbit Monoclonal Antibody (CTNNB1/2030R).

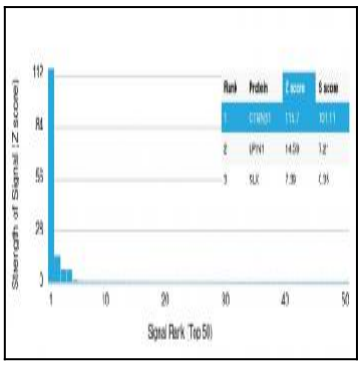

Figure 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using Catenin, beta (CTNNB1) Recombinant Rabbit Monoclonal Antibody (CTNNB1/2030R). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.