

Catenin, beta (p120) Antibody

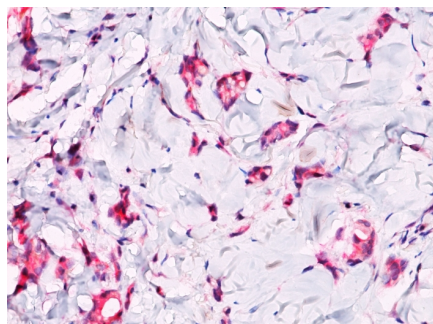
Catalog No	Format	Size
1499-RBP1-P0	Purified Ab with BSA and Azide	200ug/ml
1499-RBP1-P1	Purified Ab with BSA and Azide	200ug/ml
1499-RBP1-P1ABX	Purified Ab WITHOUT BSA	1.0mg/ml

Applications	Tested Dillution
Flow Cytometry (Flow)	1-2ug/million cells
Immunohistochemistry (IHC)	1-2ug/ml
Western Blot (WB)	2-4ug/ml

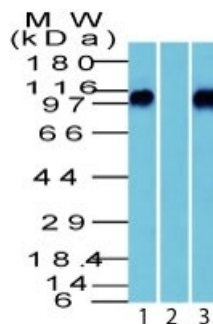
Product Details	
Gene Name	CTNNB1
Immunogen	A synthetic peptide from the middle of beta-Catenin (CTNNB1) protein
Host	Rabbit
Clonality	Polyclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	92kDa
Cellular Localization	Adherens junction, Cell junction, Cell membrane, Centrosome, Cilium basal body, Cytoplasm, Cytoskeleton, Microtubule organizing center, Nucleus, Spindle pole, Synapse
Species Reactivity	Human, Mouse
Positive Control	HeLa or MCF-7 cells. Breast carcinoma.

**Optimal dilution for a specific application should be determined.*

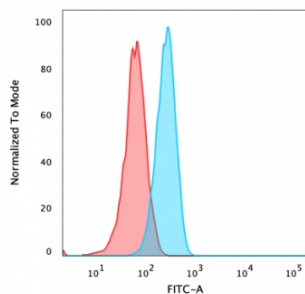
Product Images for Catenin, beta (p120) Antibody



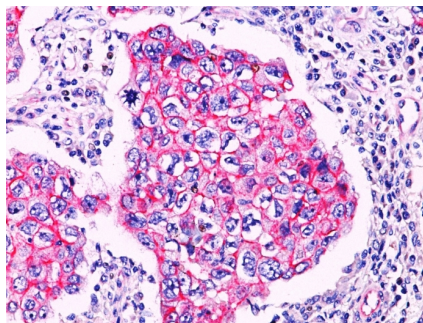
Formalin-fixed, paraffin-embedded breast lobular carcinoma stained with Catenin, beta PAb. Note cytoplasmic staining in lobular carcinoma.



Western Blot of Catenin, beta (p120) in human brain 1) absence and 2) presence of immunizing peptide and 3) Mouse brain lysate using Catenin, beta PAb.



Flow Cytometric Analysis of PFA fixed HeLa cells using Catenin, beta PAb followed by goat anti-rabbit IgG-CF488 (Blue); Isotype Control (Red).



Formalin-fixed, paraffin-embedded breast ductal carcinoma stained with Catenin, beta PAb. Note membrane staining in ductal carcinoma.

Specificity & Comments

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.

Research Areas

Apoptosis, Autophagy, Breast Cancer, Cancer, Cardiovascular, Developmental Biology, Immunology, Basal Cell Marker, BBB VCAM-1 Signaling, Colon Cancer, Infectious Disease, Signal Transduction, Transcription Factors

Known Applications & Suggested Dilutions

Flow Cytometry (0.5-1ug/million cells) | 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 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab Purified from rabbit anti-serum by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.

Storage and Stability

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.