

## Catenin, beta (p120) Antibody

Mouse Monoclonal Antibody [Clone 5H10]

Catalog No	Format	Size
1499-MSM4-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1499-MSM4-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1499-MSM4-P1ABX	Purified Ab WITHOUT BSA at 1.0mg/ml	100 ug

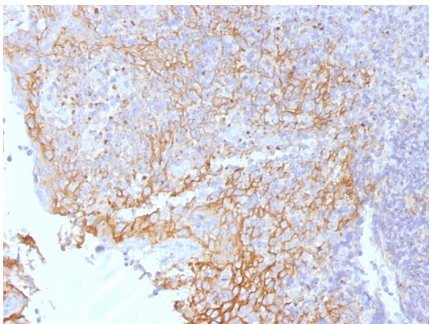
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

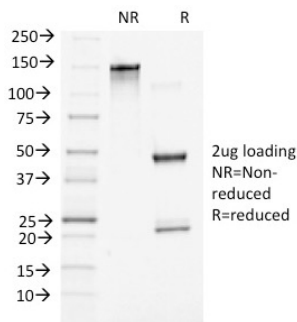
<b>Clone</b>	5H10
<b>Gene Name</b>	CTNNB1
<b>Immunogen</b>	Fusion protein consisting of the maltose binding protein fused to a 100 amino acid segment of the C-terminus of chicken beta-Catenin
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	92kDa
<b>Cellular Localization</b>	Adherens junction, Cell junction, Cell membrane, Centrosome, Cilium basal body, Cytoplasm, Cytoskeleton, Microtubule organizing center, Nucleus, Spindle pole, Synapse
<b>Species Reactivity</b>	Chicken, Human, Mouse
<b>Positive Control</b>	A431 or A549 cells. Breast carcinoma or Tonsil., HeLa

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

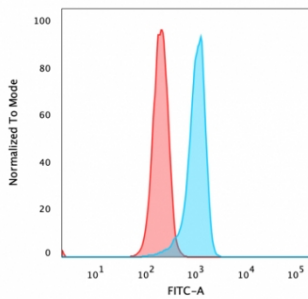
### Product Images for Catenin, beta (p120) Antibody



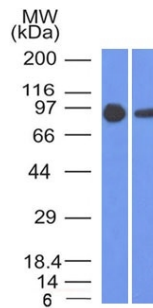
Formalin-fixed, paraffin-embedded human Tonsil stained with Beta-Catenin (p120) Monoclonal Antibody (5H10).



SDS-PAGE Analysis of Purified Beta-Catenin (p120) Monoclonal Antibody (5H10). Confirmation of Purity and Integrity of Antibody.



Flow Cytometric Analysis of PFA fixed HeLa cells using Beta-Catenin (p120) Monoclonal Antibody (5H10) followed by goat anti-mouse IgG-CF488 (Blue); Isotype Control (Red).



Western Blot of A431 and A549 cell lysates using Catenin, beta Mouse Monoclonal Antibody (5H10)

### 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.

### 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 Bioreactor Concentrate 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 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.

### Research Areas

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