

BM6021P**Monoclonal Antibody to Catenin alpha-3 / CTNNA3 (164-177) - Purified**

Alternate names:	Alpha Catenin 3, Alpha T-catenin, Cadherin-associated protein
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	Catenins are proteins that connect cadherin/β-catenin cell adhesion complexes to the actin cytoskeleton. Although originally discovered in testis, αT-catenin is expressed in other tissues, the highest levels being observed in heart. Immunohistochemical analysis showed human αTcatenin localization at intercalated discs of cardiomyocytes and in peritubular myoid cells of testis. It is proven that αT-catenin can functionally restore cell-cell adhesion in colon cancer cells lacking α-catenins. This indicates that this protein is involved in the formation of specific cell-cell contacts in specific types of muscle cells. The encoded protein has about the same predicted size (100 kDa) as other α-catenins to which it shows an overall amino acid identity of 57%. In cells transfected with αT-catenin cDNA, interaction with β-catenin was demonstrated by coimmunoprecipitation.
Uniprot ID:	Q9UI47
NCBI:	NP_001120856.1
GeneID:	29119
Host / Isotype:	Mouse / IgG2a
Recommended Isotype Controls:	AM03096PU-N
Clone:	892_24D2S
Immunogen:	Synthetic peptide corresponding to amino acids 164-177 of the Human αT-Catenin protein including an additional N-terminal cysteine coupled to KLH AA Sequence: CVANKSDLQKTYQKL
Format:	State: Liquid purified IgG fraction Buffer System: PBS with 0.09% Sodium Azide as preservative
Applications:	Western blot. Flow Cytometry. Immunocytochemistry on Acetone-Fixed Cells. Immunohistochemistry on Frozen and Paraffin Sections. Immunoprecipitation. <u>Recommended dilutions:</u> 1/25-1/50 for Immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1/100–1/1000 for immunoblotting applications. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:	The 892_24D2S antibody against αT-Catenin does not show any cross reaction with αE-Catenin or αN-Catenin in western blot analysis. This 892_24D2S antibody reacts with an epitope located between residues 164-177 of the Human αT-Catenin protein. Species: Human. Other species not tested.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freeze-thaw cycles. Shelf life: One year from despatch.
General Readings:	1. Janssens, B., Goossens, S., Staes, K., Gilbert, B., van Hengel, J., Colpaert, C., Bruyneel, E., Mareel, M., and van Roy, F. (2001). αTcatenin: a novel tissue-specific beta-cateninbinding protein mediating strong cell-cell adhesion, J. Cell. Sci. 114, 3177-88.
Pictures:	Immunohistochemistry on Paraffin Section of Human heart.

