MUbio Products BV – Oxfordlaan 70, 6229 EV Maastricht, The Netherlands
Tel. +31 (0)43 388 5805 Fax +31 (0)43 325 8183 Email: info@mubio.com Web: www.mubio.com

αT- catenin (892_24D2S)

CATALOG NUMBER: MUB0311P
CLONE: 892_24D2S
SPECIES / ISOTYPE: mouse IgG2a
PRODUCT FORM: purified monoclonal antibody

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 αT-catenin 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 co-immunoprecipitation.
The 892_24D2S antibody against αT-catenin does not show any cross reaction with αE-catenin or αN-catenin in western blot analysis.

SOURCE

892_24D2S is a mouse monoclonal IgG2a antibody derived by fusion of SP2/0-Ag14 mouse myeloma cells with spleen cells from a C57Bl/6 mouse immunized with a synthetic peptide corresponding to amino acids 164-177 of the human αT-catenin protein including an additional N-terminal cysteine (CVANKSDLQKTYQKL) coupled to keyhole limpet hemocyanin.

PRODUCT

The vial contains 100 µl 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

SPECIFICITY

892_24D2S reacts with an epitope located between residues 164-177 of the human αT-catenin protein.
892_24D2S is suitable for immunofluorescence (aceton-fixed cells), immunocytochemistry (methanol and paraformaldehyde-fixed cells, followed by permeabilisation in 0.2% Triton-X 100 for 2 min), immunoprecipitation and immunoblotting. Optimal antibody dilution should be determined by titration; recommended range is 1:25 – 1:50 for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1:100 – 1:1000 for immunoblotting applications.

SPECIES REACTIVITY

Human.

STORAGE

Store at 4°C, or in small aliquots at –20°C.

REFERENCES

1. Janssens, B., Goossens, S., Staes, K., Gilbert, B., van Hengel, J., Colpaert, C., Bruyneel, E., Mareel, M., and van Roy, F. (2001). alphaT-catenin: a novel tissue-specific beta-catenin-binding protein mediating strong cell-cell adhesion, J. Cell. Sci. *114*, 3177-88.

Datasheet version: MUB_0311P_090604