
anti- γ -catenin

Cat #: HM1069
Mouse monoclonal IgG
0.2 $\mu\text{g}/\mu\text{l}$, store at 4 °C

For research use only

BACKGROUND

The catenins (α , β and γ) are proteins that bind to cadherins at the highly conserved intracellular cytoplasmic tail. They link E-cadherin to other integral membrane and cytoplasmic proteins. Together, the catenin/cadherin complexes play an important role mediating cellular adhesion. They also mediate transduction of cell-cell contact positional signals to the cell interior. γ -Catenin is also known as plakoglobin. It is a common junctional plaque protein. The presence of γ -Catenin in both the desmosomes and in the intermediate junctions suggests that it plays a central role in the structure and function of submembranous plaques.

APPLICATION

This antibody specifically reacts with human, mouse and rat γ -catenin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

Molecular Weight of γ -catenin: 82 kDa
Western blotting positive controls:

IMMUNOGEN

Full-length recombinant human γ -catenin.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

1. Pierceall, W.E., Woodard, A.S., Morrow, J.S., Rimm, D., and Fearon, E.R. 1995. Frequent alterations in Ecadherin and alpha- and beta-catenin expression in human breast cancer cell lines. *Oncogene* 11: 1319-1326.
2. Takayama, T., Shiozaki, H., Shibamoto, S., Oka, H., Kimura, Y., Tamura, S., Inoue, M., Monden, T., Ito, F., and Monden, M. 1996. Beta-catenin expression in human cancers. *Amer. J. Pathol.* 148: 39-46.
3. Ozawa, M., Nuruki, K., Toyoyama, H., and Ohi, Y. 1995. Cloning of an alternative form of plakoglobin (gamma-catenin) lacking the fourth armadillo repeat. *J. Biochem.* 118: 836-840.
4. Sacco, P.A., McGranahan, T.M., Wheelock, M.J., and Johnson, K.R. 1995. Identification of plakoglobin domains required for association with N-cadherin and alpha-catenin. *J. Biol. Chem.* 270: 20201-20206.
5. Brady-Kalnay, S.M., Rimm, D.L., and Tonks, N.K. 1995. Receptor protein tyrosine phosphatase PTPm associates with cadherins and catenins *in vivo*. *J. Cell Biol.* 130: 977-986.

6. Winn, R.A., Bremnes, R.M., Bemis, L., Franklin, W.A., Miller, Y.E., Cool, C. and Heasley, L.E. (2002) gamma-Catenin expression is reduced or absent in a subset of human lung cancers and re-expression inhibits transformed cell growth. *Oncogene* 21, 7497-7506
7. Miravet, S., Piedra, J., Castano, J., Raurell, I., Franci, C., Dunach, M. and Garcia de Herreros, A. (2003) Tyrosine phosphorylation of plakoglobin causes contrary effects on its association with desmosomes and adherens junction components and modulates beta-catenin-mediated transcription. *Mol. Cell. Biol.* 23, 7391-7402.

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