

**RABBIT ANTI- α CATENIN
POLYCLONAL ANTIBODY**

CATALOG NUMBER: AB19021

LOT NUMBER:

QUANTITY: 50 μ L

SPECIFICITY: The catenins are polypeptides that bind to the conserved cytoplasmic tail of cadherins and are required for cadherin function². α -catenin is a 102 kDa protein that is associated with the cadherin indirectly through its interaction with β -catenin and γ -catenin³. β -Catenin and its homolog plakoglobin associate directly with the cadherin⁴. Thus, the cell-cell adherens junction is a structure composed of the transmembrane cadherin, which is associated directly with either β -catenin or plakoglobin, which in turn associates directly with α -catenin. α -catenin then mediates the interaction between the cadherin-catenin complex and the actin cytoskeleton^{5,6}. α -catenin has been characterized as a tumor suppressor, suggesting that it may have a regulatory function in regulation to its structural role⁷.

IMMUNOGEN: Recombinant GST-fusion protein (amino terminal; 576 amino acids)

APPLICATIONS: Western blot
Immunocytochemistry
Immunohistochemistry on formalin-fixed paraffin-embedded tissues*: 1:250-1:500
*requires pressure cooker antigen retrieval method⁵.
Immunoprecipitation
ELISA
Optimal working dilutions must be determined by end user.

SPECIES REACTIVITIES: Human, mouse, and dog. Other species not tested.

FORMAT: Serum

PRESENTATION: Liquid containing no preservatives.

STORAGE/HANDLING: Maintain frozen at -20°C in undiluted aliquots for up to 12 months.

REFERENCES:

1. Dillon, D et al. (1998). *American Journal of Pathology* **152(1)**: 75-81.
2. Gumbiner, B.M. et al. (1993). *J. Cell Sci. Suppl.* **17**: 155-158.
3. Fouquet, B. et al. (1992). *Differentiation* **51**: 187-194.
4. Butz, S. et al. (1994). *FEBS Letters* **355**: 195-200.
5. Nagafuchi, A. et al. (1994). *J. Cell Biology* **127**: 235-245.
6. Shahidul, I et al. (1996). *Journal of Cell Biology* **135(6.1)** 1643-1654.
7. Rudiger, M. (1998). *Bioessays* **20(9)**: 733-40.

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