

**RABBIT ANTI- $\beta$ -CATENIN  
POLYCLONAL ANTIBODY**

**CATALOG NUMBER:** AB19022

**LOT NUMBER:**

**QUANTITY:** 50  $\mu$ L

**SPECIFICITY:** Catenins are cytosolic proteins found in varying abundance in many developing and adult tissues<sup>2</sup>. Plakoglobin and  $\beta$ -catenin (95 kDa) are homologous proteins and can substitute for one another in the cadherin/catenin complex<sup>2</sup>. Their activities are controlled by three types of interactions: those with cadherins in adherens junctions, linking them to the actin cytoskeleton; interactions in the nucleus, where they bind to transcription factors and stimulate gene expression; interactions of free cytoplasmic  $\beta$ -catenin with axin and adenomatous polyposis coli (APC) protein which target it for degradation. Studies in the past year have demonstrated the complex interplay between these three types of interactions and the different behavior of  $\beta$ -catenin and plakoglobin. Their involvement in morphogenesis and tumorigenesis strongly suggests that catenins play key roles in adhesion-mediated signaling<sup>3</sup>.

**IMMUNOGEN:** Recombinant GST-fusion protein (full length  $\beta$ -catenin)

**APPLICATIONS:** Western blot  
Immunocytochemistry  
Immunohistochemistry on formalin-fixed paraffin-embedded tissues\*: 1:250-1:500  
\*requires pressure cooker antigen retrieval method<sup>4</sup>.  
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. Shahidul, I et al. (1996). *Journal of Cell Biology* **135(6.1)** 1643-1654.
3. Ben-Ze'ev, A et al. (1998). *Curr. Opin. Cell Biol.* **10(5)**: 629-639.
4. Nagafuchi, A. et al. (1994). *J. Cell Biology* **127**: 235-245.

*For research use only; not for use as a diagnostic.*