

Beta-catenin

Produced by Epitomics, Inc. Using Technology Licensed Under Patent no. 5,675,063

Cat. #RM-2101-S0 or -S (0.1ml or 1.0ml Supernatant) (Purified Ab with BSA and Azide)

Cat. #RM-2101-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

INTENDED USE:

- **For In Vitro Diagnostic Use:** This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.
- **Description:** The catenins (alpha, Beta and gamma) are ubiquitously expressed, cytoplasmic proteins associated with E-cadherin at cellular junctions. Beta-catenin also binds to N-cadherin and co-immunoprecipitates with APC. Cadherin/catenin complexes are linked to the cytoskeleton via a direct association between alpha-actinin and alpha-catenin. Increased tyrosine phosphorylation can disrupt catenin-cadherin complexes, influencing cellular adhesion. Mutations in the catenin gene, CTNNB1, have been implicated in its accumulation and various forms of carcinomas.
- **Expected Staining Pattern:** Cell Membrane
- **Positive Control:** Breast Carcinoma

MATERIALS PROVIDED:

Beta-catenin (refer to catalog number):

- #RM-2101-S0 or (S) Tissue culture supernatant, concentrated, with 0.09% Sodium Azide.
- or
- #RM-2101-R7: (7.0ml) of antibody prediluted in 0.05mol/L Tris-HCl, pH 7.6 containing stabilizing protein and 0.015mol/L sodium azide.
- **Antibody Concentration:** Not known
- **Host:** Rabbit
- **Mol. Wt. of Antigen:** 92kDa
- **Species Reactivity:** Human, Mouse (not verified). Others-not known.
- **Clone Designation:** E247
- **Immunogen:** A synthetic peptide derived from near the N-ter. of human beta-catenin
- **Microbiological State:** This product is not sterile.

MATERIALS REQUIRED, BUT NOT PROVIDED:

- **Antibody Diluent:** For concentrated antibodies, the antibody must be diluted before using. Use Lab Vision Antibody Diluent (catalog # TA-125-UD). Refer to diluent product instructions for use.
- **Negative Control Reagent:** Refer to the "General Protocol" instructions.
- **Visualization System:** Refer to the "General Protocol" instructions.

METHODS AND PROCEDURES:

Specimen Preparation	Refer to the "General Protocol" instructions.
Dilution of Concentrated Antibody	1:125 in antibody diluent
Tissue Section Pretreatment	Staining of formalin fixed sections require heat induced antigen retrieval using Tris-EDTA, pH 9.0 (cat. # TA-XXX-PM4X) heating to 98°C for 20 min using the Thermo Scientific PTModule; EDTA pH 8.0, TA-XXX-PM2X or AP-9004-XXX can also be used
Primary Antibody Incubation Time	20 min at RT using the LP detection systems at Room Temperature
Visualization	To detect antibody, follow the instructions provided with the visualization system.

STORAGE and STABILITY:

This product contains sodium azide and is stable for 24 months when stored at 2-8°C. Do not use after expiration date indicated on label of the product. If reagent is not stored as recommended, performance must be validated by the user.

REFERENCES:

- 1) Blaker, H., et al. Genes Chromosomes Cancer. 25: 399
- 2) Hagen, T., and A. Vidal-Puig. Biochem Biophys Res Commun. 294: 324
- 3) Koslov, E.R., et al. (1997) J. Biol.Chem. 272(43): 27301.
- 4) Hazan, R.B., et al (1997) J.Biol.Chem. 272(51): 32448-32453