



**Meridian**  
**Life Science, Inc.**  
Innovative Solutions. Trusted Partner.®

5171 Wilfong Road  
Memphis, TN 38134  
USA  
Telephone: 901-382-8716  
Fax: 901-333-8223  
Email: [info@meridianlifescience.com](mailto:info@meridianlifescience.com)  
[www.MeridianLifeScience.com](http://www.MeridianLifeScience.com)

## CERTIFICATE OF ANALYSIS

**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.

**Catalog #:** K67109M **Lot #:** 7G20209

**Description:** MAb to Catenin, beta, Core  
Monoclonal Antibody to Catenin, beta, Core/Armadillo Repeats.

**Specificity:** Specifically interacts with the core region (armadillo repeats) of beta-catenin. The alpha-, beta- and gamma-catenins are cytoplasmic proteins mediating the interaction of  $\text{Ca}^{2+}$ -dependent transmembrane adhesion molecules (cadherins) with the cytoskeletal network. The direct interaction of beta-catenin with the cytoplasmic domain of cadherins plays a crucial role for cell-cell adhesion and signal transmission between neighboring cells. Recent studies indicate that beta-catenin may also play a role in tumorigenesis since it forms complexes with the tumor suppressor gene product APC. Beta-catenin directly interacts and constitutively activates transcription factors of the TCF/LEF gene family. Thus it is proposed that beta-catenin plays a dual role not only in the maintenance and regulation of cell-cell interactions but also in the regulation of gene activity. Cross reacts with human, mouse and rat.

**Host Animal:** Mouse **Isotype:** IgG<sub>2b</sub>, kappa

**Source:** Tissue Culture

**Immunogen:** Recombinant beta-catenin.

**Format:** Purified, Lyophilized.  
Reconstitute with 1 mL water for 15 minutes at room temperature.

**Purification:** Thiophilic adsorption and size exclusion chromatography.

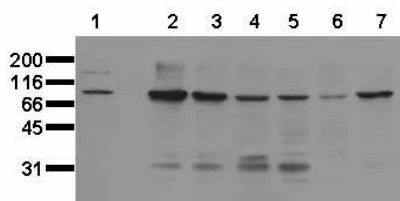
**Concentration:** 100 µg/mL (prior to lyophilization).

**Buffer:** Lyophilized from 2X Phosphate Buffered Saline, Polyethylene Glycol and Sucrose.

**Preservative:** 0.09% Sodium Azide (prior to lyophilization).

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

**Applications:** Immunoblotting: 1 µg/mL for AP/BCIP/NBT (MTT) detection; 0.1 µg/mL for HRP/ECL detection.  
Immunoprecipitation: 1 – 10 µg per 10<sup>6</sup> vanadate treated A431 cells.  
Immunocytochemistry: 0.1-1.0 µg/mL



**Detection of endogenous β-Catenin:**

Whole cell extracts of pervanadate (VH) treated tumor cells; treatment 15 min; 20,000 cells per lane were applied to SDS-PAGE and transferred to PVDF membranes. The blot was probed with 0.5 µg/mL K67109M for 1 hour at RT and developed by ECL (exp. time: 30 sec).

Lane 1: A431      Lane 5: MCF-7  
Lane 2: SW480    Lane 6: MDA231  
Lane 3: SW620    Lane 7: T47D  
Lane 4: HT29

ELISA: 0.05 µg/mL  
Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

**Storage:** Store lyophilized product at –20°C. After reconstitution, aliquot and store at –80°C. Thawed aliquots may be stored at 2-8°C for up to 3 months.

**Safety Note(s):** Refer to the appropriate Safety Data Sheet (SDS) for additional information.

**Includes Positive Control:**

**Description:** Cell lysate of 2 x 10<sup>6</sup> untreated serum starved SW480 cells.

**Format:** Lysate, Lyophilized  
Reconstitute with 200 µL water. After complete solubilization of the proteins, add 200 µL SDS-PAGE sample buffer and incubate at 90°C for 5 minutes.

**Applications:** For Western Blot applications: 20 µL/lane (mini gel) for HRP/ECL detection.

**Storage:** Store lyophilized product at –20° C. After reconstitution, aliquot and store at –20°C. Avoid multiple freeze/thaw cycles.

*Sincerely, S. Orr*

Signature

03 April 2018

Date

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**