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

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CERTIFICATE OF ANALYSIS

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

Catalog #: K67519M **Lot #:** 1H21814

Description: MAb to Catenin beta, pTyr 654
Monoclonal Antibody to Catenin, beta, phosphorylated at Tyrosine 654.

Specificity: The alpha-, beta- and gamma-catenins are cytoplasmic proteins mediating the interaction of 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. Beta-catenin is a substrate of both receptor and non-receptor tyrosine kinases. Tyrosine 86 and tyrosine 654 are substrates of EGF receptor and src family kinases while tyrosine 142 is a substrate of fer tyrosine kinases. Clone 1B11 specifically recognizes beta-catenin phosphorylated at tyrosine 654 at 90 kDa and gamma-catenin at 70 kDa. Reacts with Human, mouse, rat and dog.

Clone: 1B11

Host Animal: Mouse **Isotype:** IgG_1, kappa

Source: Cell Culture

Immunogen: Synthetic Phosphopeptide **Exp. Date:** Not Assigned

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).

Affinity Constant: Not Determined

Buffer: Lyophilized from 2X PBS, PEG and Sucrose.

Preservative: 0.1% Sodium Azide (prior to lyophilization).

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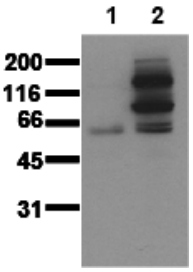
Applications: Immunoblotting: 1 µg/mL for HRP/ECL detection.
Recommended blocking buffer CPPT: 0.5% (w/v) casein, 1% (w/v) PEG 4000, 1% (w/v) Polyvinylpyrrolidone (PVP), 0.1% Tween 20, 10 mM Tris/HCl, pH 7.4, 150 mM Sodium Chloride.



Phosphospecificity
Whole cell extracts of control (1) or pervanadate treated (2) OVCAR 5 tumor cells were applied to SDS-PAGE (20,000 cells per lane) and transferred to a PVDF membrane. The blot was probed with 0.5 µg/mL K67519M for 1 hour at RT and developed by ECL (exp. time: 30 sec).

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. Avoid multiple freeze/thaw cycles.

Warning: This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1–1.0%. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

Includes Positive Control:

Description: Cell lysate of pervanadate treated 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. 20 µL is approximately 20,000 cells.

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

Robert Ott

06 August 2014

Signature Date

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY