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Product Information

Anti-Rictor
produced in rabbit, affinity isolated antibody

Product Number **SAB4200141**

Product Description
Anti-Rictor is produced in rabbit using as the immunogen a synthetic peptide corresponding to a fragment of human rictor (Gene ID: 253260), conjugated to KLH. The corresponding sequence is identical in mouse and rat rictor. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-Rictor recognizes human, mouse, and rat rictor. The antibody may be used in several immunochemical techniques including immunoblotting (~190 kDa), immunoprecipitation, and immunohistochemistry. Detection of the rictor band by immunoblotting is specifically inhibited by the immunizing peptide.

Rictor (rapamycin-insensitive companion of mTOR) is a subunit of the mTORC2 complex, which regulates cell survival and cytoskeletal organization through the regulation of Akt and PKCα, respectively. The mTORC2 complex contains mTOR, mLST8, mSIN1, deptor, protor-1, and rictor, but not raptor. mTORC2 is rapamycin-insensitive and does not regulate S6 Kinase 1, an mTOR substrate that regulates cell size. mTORC2 activity is enhanced in tumors harboring high levels of activated Akt, such as gliomas or tumors caused by PTEN deletion, in which rictor is overexpressed**.** [1-5]

Reagent
Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody concentration: ~1.0 mg/mL

Precautions and Disclaimer
For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability
Store at –20 °C. For continuous use, the product may be stored at 2–8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilutions should be discarded if not used within 12 hours.

Product Profile
Immunoblotting: a working antibody concentration of 1-2 µg/mL is recommended using whole extracts of mouse C2C12 cells.

Immunoprecipitation: a working antibody amount of 5-10 µg is recommended using lysates of human HeLa cells.

Immunohistochemistry: a working antibody concentration of 5-10 µg/mL is recommended using heat-retrieved formalin-fixed, paraffin-embedded rat testis sections and Biotin/ExtrAvidin®-Peroxidase staining system.

Note: In order to obtain best results in various techniques and preparations, it is recommended to determine optimal working dilutions by titration.

References
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3. Roulin, D. et al., *Mol. Cancer*, **9**, 57 (2010).
4. Masri, J. et al., *Cancer Res.*, **67**, 11712-11720 (2007).
5. Guertin, D.A. et al., *Cancer Cell*, **15**, 148-159 (2009).

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