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RICTOR Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP7259c

Specification

RICTOR Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q6R327

RICTOR Antibody (Center) Blocking Peptide - Additional Information

Gene ID 253260

Other Names
Rapamycin-insensitive companion of mTOR, AVO3 homolog, hAVO3, RICTOR {ECO:0000312|EMBL:EAW559801}

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7259c was selected from the Center region of human RICTOR. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RICTOR Antibody (Center) Blocking Peptide - Protein Information

Name RICTOR {ECO:0000312|EMBL:EAW55980.1}

RICTOR Antibody (Center) Blocking Peptide - Background

RICTOR and MTOR (FRAP1) are components of a protein complex that integrates nutrient- and growth factor-derived signals to regulate cell growth.

RICTOR Antibody (Center) Blocking Peptide - References

Pearce,L.R., Biochem. J. 405 (3), 513-522 (2007)Yang,Q., Genes Dev. 20 (20), 2820-2832 (2006)Jacinto,E., Cell 127 (1), 125-137 (2006)

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Function
Subunit of mTORC2, which regulates cell growth and survival in response to hormonal signals. mTORC2 is activated by growth factors, but, in contrast to mTORC1, seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. mTORC2 plays a critical role in AKT1 'Ser-473' phosphorylation, which may facilitate the phosphorylation of the activation loop of AKT1 on 'Thr-308' by PDK1 which is a prerequisite for full activation. mTORC2 regulates the phosphorylation of SGK1 at 'Ser-422'. mTORC2 also modulates the phosphorylation of PRKCA on 'Ser-657'. Plays an essential role in embryonic growth and development.

RICTOR Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides