

RICTOR Blocking Peptide (Center)
Synthetic peptide
Catalog # BP21379c**Specification****RICTOR Blocking Peptide (Center) - Product Information**Primary Accession [Q6R327](#)**RICTOR Blocking Peptide (Center) - 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 is selected from aa 1068-1082 of HUMAN RICTOR

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 Blocking Peptide (Center) - Protein Information**Name** RICTOR
{ECO:0000312|EMBL:EAW55980.1}**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,

RICTOR Blocking Peptide (Center) - Background

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 Blocking Peptide (Center) - References

Sarbassov D.D., et al. Curr. Biol. 14:1296-1302(2004).
Bechtel S., et al. BMC Genomics 8:399-399(2007).
Schmutz J., et al. Nature 431:268-274(2004).
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RICTOR Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)