RICTOR-T1135 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RICTOR-T1135, Polyclonal Antibody
Full Product Name	Phospho-RICTOR-T1135 Rabbit pAb
Product Gene Name	anti-RICTOR-T1135 antibody
Product Synonym Names	PIA; AVO3; hAVO3
Immunogen Sequence	TLTEP
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid PBS with 0.01% thimerosal, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles. Ship: Ice Pack
Molecular Weight	195,011 Da
OMIM	609022
3D Structure	ModBase 3D Structure for Q6R327
Cellular Location	cytosol
Research Area	Epigenetics Nuclear Signaling, Translation Control, Regulation of eIF4 and p70 S6 Kinase, Protein phosphorylation, PI3K-Akt Signaling Pathway, mTOR Signaling Pathway, Cell Cycle, Cell cycle inhibitors, Endocrine Metabolism, Insulin Receptor Signaling Pathway, Immunology Inflammation
Immunogen	A synthetic phosphorylated peptide around T1135 of human RICTOR (NP_689969.2).
Product Categories/Family for anti-RICTOR-T1135 antibody	Phosphorylated Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RICTOR-T1135 antibody	Western Blot (WB)
Application Notes for anti-RICTOR-T1135 antibody	WB: 1:500-1:2000
Related Product Information for anti-RICTOR-T1135 antibody	RICTOR and MTOR (FRAP1; MIM 601231) are components of a protein complex that integrates nutrient- and growth factor-derived signals to regulate cell growth (Sarbassov et al., 2004 [PubMed 15268862]).
Other Notes	Small volumes of anti-RICTOR-T1135 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for RICTOR-T1135 purchase	MBS9146524 is an antibody targeting RICTOR-T1135. Also known as Phospho-RICTOR-T1135 Rabbit pAb. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RICTOR-T1135. It may not necessarily be applicable to this product.

NCBI GI #	59891448
NCBI GeneID	253260
NCBI Accession #	NP_689969.2
UniProt Primary Accession #	Q6R327
UniProt Secondary Accession #	Q68DT5; Q86UB7; Q8N3A0; Q8NCM6; B2RNX0; B7ZMF7
UniProt Related Accession #	Q6R327
GenBank Nucleotide #	NM_152756.4
NCBI Official Full Name	rapamycin-insensitive companion of mTOR isoform 1
NCBI Official Synonym Full Names	RPTOR independent companion of MTOR, complex 2
NCBI Official Symbol	RICTOR
NCBI Official Synonym Symbols	PIA; AVO3; hAVO3
UniProt Protein Name	Rapamycin-insensitive companion of mTOR
UniProt Synonym Protein Names	AVO3 homolog; hAVO3
UniProt Gene Name	RICTOR
UniProt Synonym Gene Names	hAVO3
UniProt Entry Name	RICTR_HUMAN
NCBI Protein Information	rapamycin-insensitive companion of mTOR; RICTOR; pianissimo; AVO3 homolog; TORC2-specific protein AVO3
UniProt Comments for RICTOR-T1135	RICTOR: a regulatory binding partner of the kinase mTOR. Part of a rapamycin-insensitive and raptor-independent pathway that regulates the cytoskeleton. Rictor interacts with Cullin1-Rbx1 to form an E3 ubiquitin ligase complex, and promotes ubiquitination and degradation of SGK1. Shares homology with pianissimo from D. discoidieum, STE20p from S. pombe, and AVO3p from S. cerevisiae. Protein type: Cell cycle regulation; Ubiquitin conjugating system; Adaptor/scaffold Chromosomal Location of Human Ortholog: 5p13.1 Cellular Component: TORC2 complex; cytosol Molecular Function: protein binding; ribosome binding; protein kinase binding Biological Process: epidermal growth factor receptor signaling pathway; TOR signaling pathway; fibroblast growth factor receptor signaling pathway; phosphoinositide-mediated signaling; nerve growth factor receptor signaling pathway; regulation of protein kinase B signaling cascade; positive regulation of protein kinase B signaling cascade; peptidyl-serine phosphorylation; positive regulation of peptidyl-tyrosine phosphorylation; embryonic development; positive regulation of actin filament polymerization; regulation of actin cytoskeleton organization and biogenesis; T cell costimulation; actin cytoskeleton reorganization; innate immune response; positive regulation of endothelial cell proliferation; vascular endothelial growth factor receptor signaling pathway; positive regulation of TOR signaling pathway
Research Articles on RICTOR-T1135	**1.** Rictor contributes to cisplatin resistance in human ovarian cancer cells by suppressing cisplatin-induced apoptosis and by activating and stabilizing Akt.

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