

Rabbit RICTOR Polyclonal Antibody | anti-RICTOR antibody

RICTOR Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327200	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

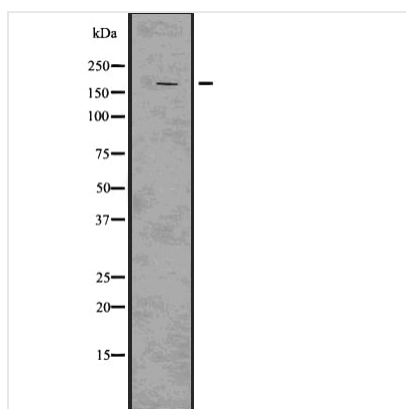
PRODUCT SYNONYMS

RICTOR; Polyclonal Antibody; RICTOR Antibody; AVO3; AVO3 homolog; DKFZp686B11164; hAVO3; KIAA1999; Likely ortholog of mouse TORC2 specific protein AVO3 (*S. cerevisiae*); mAVO3; MGC39830; PIA; Pianissimo; Rapamycin insensitive companion of mTOR; Rapamycin-insensitive companion of mTOR; Rictor; RICTR; RICTR_HUMAN; RPTOR independent companion of MTOR complex 2; TORC2 specific protein AVO3; anti-RICTOR antibody

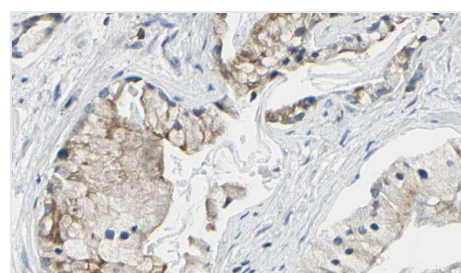
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RICTOR antibody detects endogenous levels of total RICTOR
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1732
Applicable Applications for anti-RICTOR antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RICTOR
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES


WB (Western Blot)

Western blot analysis of RICTOR using HUVEC whole cell lysates


IHC (Immunohistochemistry)

AAA327200 at 1/100 staining Human prostate tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-RICTOR antibody	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. Subunit Structure: Part of the mammalian target of rapamycin complex 2 (mTORC2) which contains MTOR, MLST8, PRR5, RICTOR, MAPKAP1 and DEPTOR (PubMed:15268862, PubMed:15467718, PubMed:17461779, PubMed:17599906). Contrary to mTORC1, mTORC2 does not bind to and is not sensitive to FKBP12-rapamycin. Binds directly to MTOR and PRR5 within the TORC2 complex (PubMed:15268862, PubMed:17461779, PubMed:17599906). Interacts with CCDC28B (PubMed:23727834). Interacts with NBN (PubMed:23762398). Interacts with PRR5L (PubMed:17461779, PubMed:21964062). Post-translational Modifications: Phosphorylated by MTOR; when part of mTORC2. Phosphorylated at Thr-1135 by RPS6KB1; phosphorylation of RICTOR inhibits mTORC2 and AKT1 signaling. Similarity: Belongs to the RICTOR family.
References	Wu D, Huang CJ, Jiao XF, Ding ZM, Zhang JY, Chen F, Wang YS, Li X, Huo LJ; Journal: Oncotarget. Olaquinox disrupts tight junction integrity and cytoskeleton architecture in mouse Sertoli cells.

NCBI AND UNIPROT INFORMATION

NCBI GI #	550544217
NCBI GeneID	253260
NCBI Accession #	NP_001272368.1
NCBI GenBank Nucleotide #	NM_001285439.1
UniProt Accession #	Q6R327; Q68DT5; Q86UB7; Q8N3A0; Q8NCM6; B2RNX0; B7ZMF7
Molecular Weight	Observed: 192 kDa Predicted: 193 kDa
NCBI Official Full Name	rapamycin-insensitive companion of mTOR isoform 2
NCBI Official Synonym Full Names	RPTOR independent companion of MTOR complex 2
NCBI Official Symbol	RICTOR
NCBI Official Synonym Symbols	PIA; AVO3; hAVO3
NCBI Protein Information	rapamycin-insensitive companion of mTOR
UniProt Protein Name	Rapamycin-insensitive companion of mTOR
UniProt Gene Name	RICTOR
UniProt Synonym Gene Names	hAVO3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.