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Goat Anti-RICTOR Antibody
Peptide-affinity purified goat antibody
Catalog # AF1930a

Specification

Goat Anti-RICTOR Antibody - Product Information

Application	**IHC**
Primary Accession	Q6R327
Other Accession	NP_689969, 253260, 78757 (mouse)
Reactivity	**Human**
Predicted	**Mouse, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**192218**

Goat Anti-RICTOR Antibody - Additional Information

Gene ID 253260

Other Names
Rapamycin-insensitive companion of mTOR, AVO3 homolog, hAVO3, RICTOR {ECO:0000312|EMBL:EAW55980.1}

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-RICTOR Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-RICTOR Antibody - Protein Information

Name RICTOR (HGNC:28611)

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

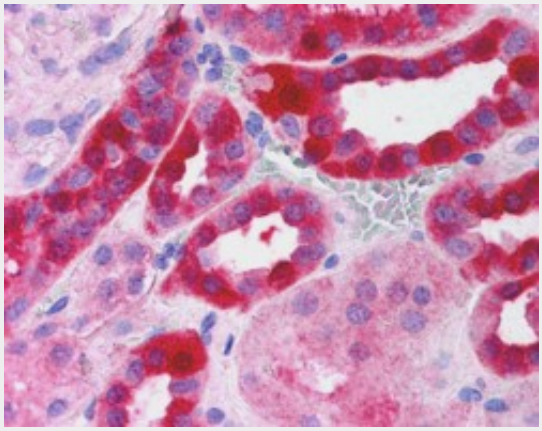
role in AKT1 'Ser-473' phosphorylation, which may facilitate the phosphorylation of the activation loop of AKT1 on 'Thr-308' by PDK1 which is a prerequisite for full activation. mTORC2 regulates the phosphorylation of SGK1 at 'Ser-422'. mTORC2 also modulates the phosphorylation of PRKCA on 'Ser-657'. Plays an essential role in embryonic growth and development.

Goat Anti-RICTOR Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-RICTOR Antibody - Images



AF1930a (2.5 µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-RICTOR Antibody - Background

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]).

Goat Anti-RICTOR Antibody - References

FoxOs inhibit mTORC1 and activate Akt by inducing the expression of Sestrin3 and Rictor. Chen CC, et al. Dev Cell, 2010 Apr 20. PMID 20412774.
mTORC1-activated S6K1 phosphorylates Rictor on threonine 1135 and regulates mTORC2 signaling. Julien LA, et al. Mol Cell Biol, 2010 Feb. PMID 19995915.
Targeted inhibition of mammalian target of rapamycin signaling inhibits tumorigenesis of colorectal cancer. Gulhati P, et al. Clin Cancer Res, 2009 Dec 1. PMID 19934294.
Involvement of mTORC1 and mTORC2 in regulation of glioblastoma multiforme growth and motility. Gulati N, et al. Int J Oncol, 2009 Oct. PMID 19724909.
Ku-0063794 is a specific inhibitor of the mammalian target of rapamycin (mTOR). Garc□a-Mart□nez

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