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RICTOR Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7259d

Specification

RICTOR Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q6R327
Other Accession	Q6QI06
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**192218**
Antigen Region	**236-267**

RICTOR Antibody (N-term) - Additional Information

Gene ID 253260

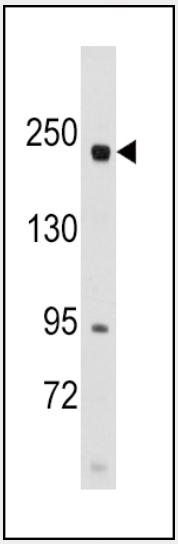
Other Names
Rapamycin-insensitive companion of mTOR, AVO3 homolog, hAVO3, RICTOR {ECO:0000312|EMBL:EAW559801}

Target/Specificity
This RICTOR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 236-267 amino acids from the N-terminal region of human RICTOR.

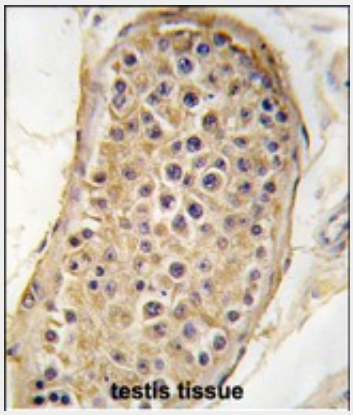
Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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



Western blot analysis of anti-RICTOR Pab (Cat.#AP7259d) in SK-BR-3 cell line lysates (35ug/lane).RICTOR (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human testis tissue reacted with RICTOR antibody (N-term) (Cat.#AP7259d), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

RICTOR Antibody (N-term) - Background

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Precautions
RICTOR Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RICTOR Antibody (N-term) - 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, 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 (N-term) - 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

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

RICTOR Antibody (N-term) - 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)