

RICTOR Antibody

Rabbit Polyclonal Antibody Catalog # ALS17230

Specification

RICTOR Antibody - Product Information

Application	IHC-P, WB
Primary Accession	<u>Q6R327</u>
Other Accession	<u>253260</u>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	lgG
Calculated MW	192218

RICTOR Antibody - Additional Information

Gene ID 253260

Other Names RICTOR, AVO3 homolog, HAVO3, MAVO3, PIA, KIAA1999, TORC2-specific protein AVO3, AVO3, Pianissimo

Reconstitution & Storage PBS, pH 7.4, 0.02% sodium azide. Store at -20°C for up to one year.

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

RICTOR Antibody - Protein Information

Name RICTOR (<u>HGNC:28611</u>)

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.

Volume 50 μl

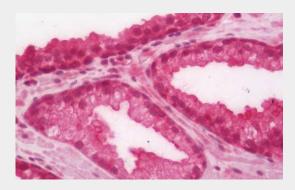


RICTOR Antibody - Protocols

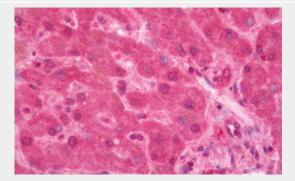
Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

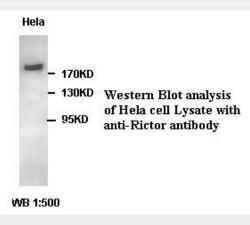
RICTOR Antibody - Images



Human Prostate: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)



western blot analysis of hela cell lysate with anti-rictor antibody



RICTOR Antibody - 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 nutrientinsensitive. 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 - 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). Mural R.J., et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases. Ohara O., et al.DNA Res. 9:47-57(2002).