

Product datasheet

Anti-RICTOR antibody [7B3] ab104838

3 References 5 Images

Overview

Product name	Anti-RICTOR antibody [7B3]
Description	Mouse monoclonal [7B3] to RICTOR
Host species	Mouse
Tested applications	Suitable for: WB, IHC-P, Flow Cyt, ICC/IF, ELISA
Species reactivity	Reacts with: Mouse, Human, Monkey
Immunogen	Purified recombinant fragment of Human RICTOR expressed in <i>E. Coli</i> .
Positive control	HeLa, PANC-1, MOLT4, HepG2 and HEK293 cell lysates. Thyroid gland tissues and Human breast carcinoma. NIH3T3 cells.
General notes	This product was changed from ascites to supernatant. Lot no's high than GR173148-16 are from Tissue Culture Supernatant

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: PBS
Purity	Protein G purified
Purification notes	Purified from tissue culture supernatant.
Clonality	Monoclonal
Clone number	7B3
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab104838** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/2000. Predicted molecular weight: 192 kDa.
IHC-P		1/200 - 1/1000.
Flow Cyt		Use at an assay dependent concentration. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF		1/200 - 1/1000.
ELISA		1/10000.

Target

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.

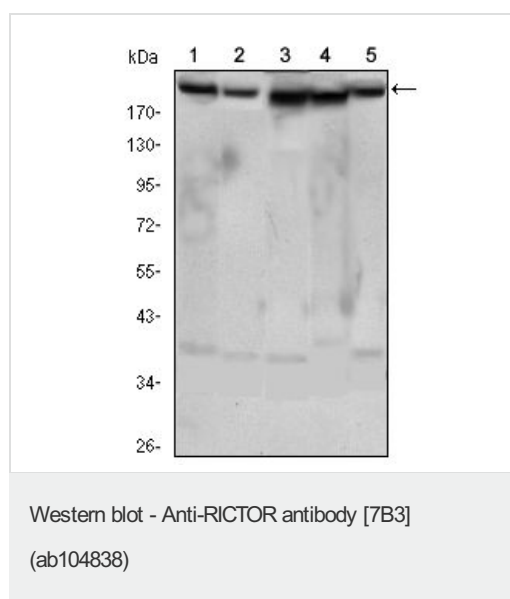
Sequence similarities

Belongs to the RICTOR family.

Post-translational modifications

Phosphorylated by MTOR; when part of mTORC2. Phosphorylated at Thr-1135 by RPS6KB1; phosphorylation of RICTOR inhibits mTORC2 and AKT1 signaling.

Images



All lanes : Anti-RICTOR antibody [7B3] (ab104838) at 1/500 dilution

Lane 1 : HeLa cell lysate.

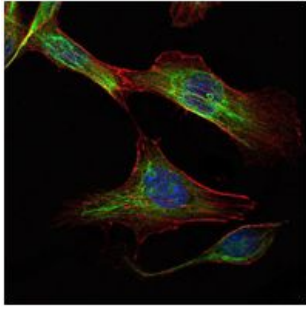
Lane 2 : PANC-1 cell lysate.

Lane 3 : MOLT4 cell lysate.

Lane 4 : HepG2 cell lysate.

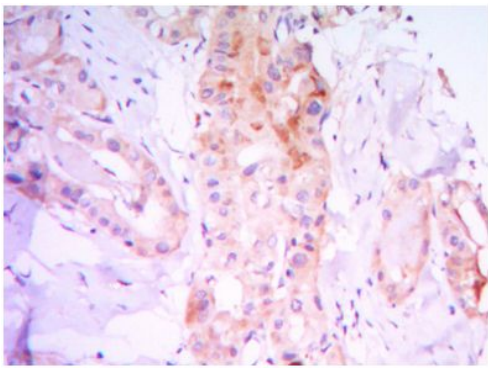
Lane 5 : HEK293 cell lysate.

Predicted band size: 192 kDa



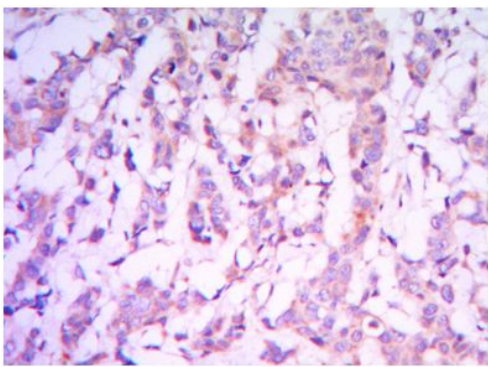
Immunocytochemistry/ Immunofluorescence - Anti-RICTOR antibody [7B3] (ab104838)

ab104838 at 1/200 dilution staining RICTOR in NIH3T3 cells (green) by immunofluorescence. DRAQ5 fluorescent DNA dye is shown in blue. Actin filaments have been labeled with Alexa Fluor-555 phalloidin (red).



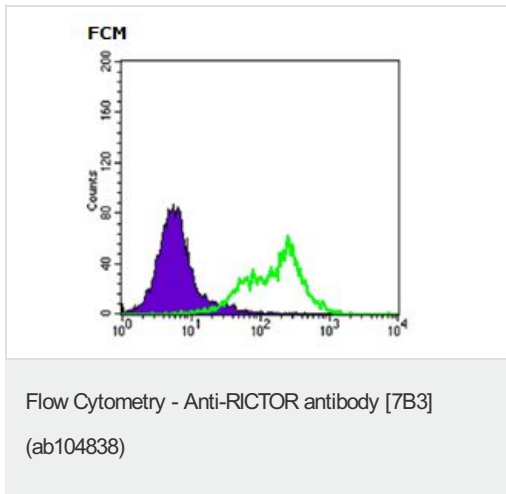
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RICTOR antibody [7B3] (ab104838)

ab104838 at 1/200 dilution staining RICTOR in paraffin-embedded thyroid gland tissues by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RICTOR antibody [7B3] (ab104838)

ab104838 at 1/200 dilution staining RICTOR in paraffin-fixed Human breast carcinoma by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections).



ab104838 used for Flow cytometric analysis of HeLa cells (green).
The negative control is shown in purple.

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