Product Datasheet

Rictor Antibody
NB100-1534

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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Publications: 2

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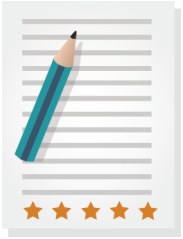
Updated 10/23/2024 v.20.1



NB100-1534

Rictor Antibody

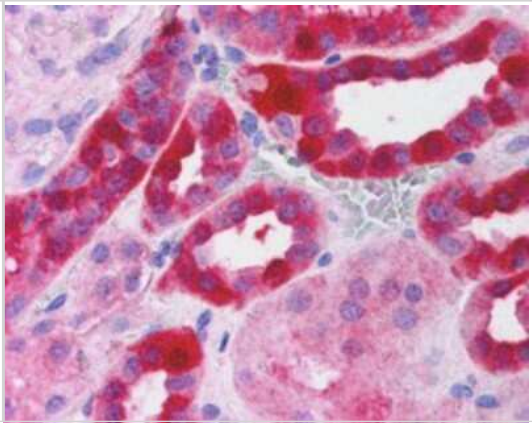
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Host	Goat
Gene ID	253260
Gene Symbol	RICTOR
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in (PMID: 23555046).
Immunogen	Peptide with sequence C-KQPIVDTSAES corresponding to C-Terminus according to NP_689969.2.

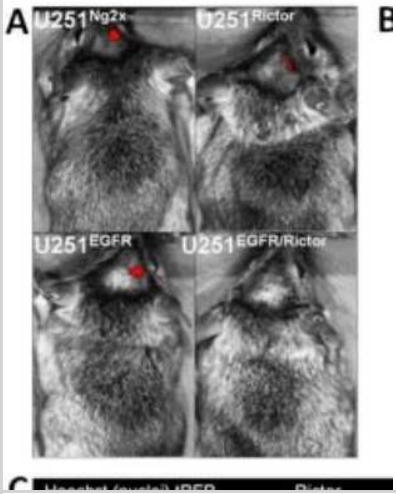
Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Immunohistochemistry 2-3 ug/ml, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunohistochemistry-Paraffin 2-3 ug/ml, Immunohistochemistry-Frozen 1:10 - 1:500, Peptide ELISA detection limit 1:4000
Application Notes	WB: Preliminary experiments gave an approx. 38 kDa band in human lung carcinoma A549 cell line and cervix epitheloid carcinoma cell line HeLa lysates after 0.1 ug/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 192 kDa band according to NP_689969.2. The 38 kDa band was successfully blocked by incubation with the immunizing peptide. IHC-P: kidney shows strong cytoplasmic staining of epithelial cells in distal convoluted tubules.

Images

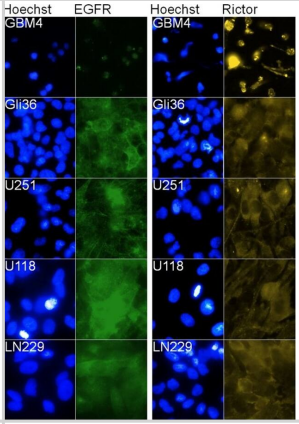
Immunohistochemistry-Paraffin: Rictor Antibody [NB100-1534] - (2.5ug/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



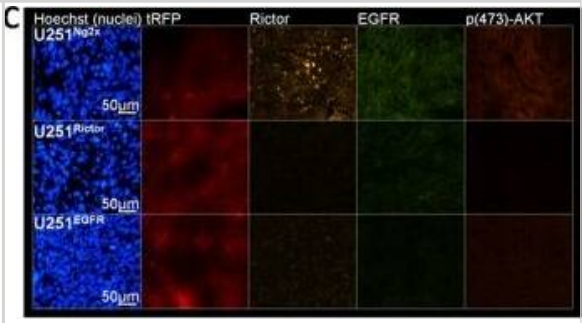
Immunohistochemistry: Rictor Antibody [NB100-1534] - The combined silencing of Rictor and EGFR in vivo results in a complete inhibition of tumor growth. U251Ng2x, U251Rictor, U251EGFR and U251EGFR/Rictor cells were implanted into the right caudate nucleus-putamen of Rag2M mice. Induction of shRNA expression in mice was initiated on day 21 by dissolving 2 mg/mL doxycyline and 5% sucrose in drinking water. On day 49, animals were imaged by Maestro (TM) fluorescence imaging unit expression of tRFP co-expressed with the shRNA sequences. Mice brains were harvested, sectioned and stained for nuclei, Rictor, EGFR and p(473)-AKT and imaged for all markers in addition to tRFP by robotic fluorescence microscopy. No tumor was detected in the U251EGFR/Rictor group. Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0059597), licensed under a CC-BY license.



Immunocytochemistry/ Immunofluorescence: Rictor Antibody [NB100-1534] - Fluorescence micrographs showing EGFR (Alexa 488; green), Rictor (Alexa 488; yellow) & cell nuclei (Hoechst 33342; blue) in GBM4 GBM-derived cancer stem-like cell line, & Gli36, U251MG, U118MG & LN229 GBM cell lines. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/23555046), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: Rictor Antibody [NB100-1534] - The combined silencing of Rictor & EGFR in vivo results in a complete inhibition of tumor growth.U251Ng2x, U251Rictor, U251EGFR & U251EGFR/Rictor cells were implanted into the right caudate nucleus-putamen of Rag2M mice (n=6−8). Induction of shRNA expression in mice was initiated on day 21 by dissolving 2 mg/mL doxycyline & 5% sucrose in drinking water. a) On day 49, animals were imaged by Maestro™ fluorescence imaging unit for the expression of tRFP co-expressed with the shRNA sequences upon doxycycline-induced expression. Mice were then terminated & brains were harvested, sectioned & stained for nuclei, Rictor, EGFR & p(473)-AKT & imaged for all markers in addition to tRFP by robotic fluorescence microscopy. No tumor was detected in the U251EGFR/Rictor group. b) A representative brain section from U251Ng2x, U251Rictor, U251EGFR & U251EGFR/Rictor tumor groups is shown: tRFP (red) & Hoechst (blue). c) A representative tumor section from U251Ng2x, U251Rictor & U251EGFR tumor groups is shown: nuclei (blue), rRFP (red), Rictor (yellow), EGFR (green) & p(473)-AKT (orange). d) The expression of EGFR (left axis), Rictor (right axis) & p(473)-AKT (right axis) in U251Ng2x, U251Rictor, U251EGFR tumor sections were quantified (positive staining normalized to Hoechst nuclei staining). e) Tumor sizes were estimated by quantification of tumor areas in brain sections from all groups (left axis). The expression of the proliferation marker Ki67 in the tumor (proliferating fraction) was also quantified (right axis). *p-value ≤0.05; **p-value ≤0.01; ***p-value ≤0.001 compared to control untreated cells. ‡: No tumor was detected in the U251EGFR/Rictor group. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/23555046), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Verreault M, Weppler SA, Stegeman A et al. Combined RNAi-Mediated Suppression of Rictor and EGFR Resulted in Complete Tumor Regression in an Orthotopic Glioblastoma Tumor Model PLoS One 2013-01-01 [PMID: 23555046] (ICC/IF, IHC-Fr, Mouse, Human)

Sarbassov dos D, Ali SM, Kim DH, Guertin DA, Latek RR, Erdjument-Bromage H, Tempst P, Sabatini DM. Rictor, a novel binding partner of mTOR, defines a rapamycin-insensitive raptor-independent pathway that regulates the cytoskeleton. Curr Biol;14(14):1296-302. 2004-07-27 [PMID: 15268862]

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Products Related to NB100-1534

HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
H00253260-Q01-10ug	Recombinant Human Rictor GST (N-Term) Protein

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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