Product Datasheet

TOR/mTOR [p Ser2448] Antibody - BSA Free NB600-607

Unit Size: 0.1 mg

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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NB600-607

TOR/mTOR [p Ser2448] Antibody - BSA Free

Product Information					
Unit Size	0.1 mg				
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.				
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.				
Clonality	Polyclonal				
Preservative	0.01% Sodium Azide				
Isotype	IgG				
Purity	Immunogen affinity purified				
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2				
Product Description					
Description	This is an affinity purified antibody produced by immunoaffinity chromatography using the immunizing peptide after immobilization to a solid phase Store vial at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable				
	for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.				
Host	Rabbit				
Gene ID	2475				
Gene Symbol	MTOR				
Species	Human, Rat				
Reactivity Notes	Reactivity against TOR/mTOR from other species has not been determined, however, reactivity with mouse is suggested based on protein sequence homologies				
Specificity/Sensitivity	Reactivity occurs with phosphorylated mTOR from human derived tissues and cells. Reactivity against mTOR from other species has not been determined, however, reactivity with mouse and rat is suggested based on protein sequen homologies.				
Immunogen	TOR/TOR/mTOR [p Ser2448] Antibody was prepared from whole rabbit serum produced by repeated immunizations with a phosphorylated synthetic peptide corresponding a c-terminal region near Serine 2448 of human TOR/mTOR. (Uniprot: P42345)				
Product Application Details					
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin				
Recommended Dilutions	Western Blot 1:500-1:2000, ELISA 1:10000-1:100000, Immunohistochemistry 5.0 ug/ml, Immunohistochemistry-Paraffin 5 ug/ml				
Application Notes	This affinity purified antibody has been tested for use in immunohistochemistry, ELISA and western blotting. Western blotting shows reactivity specific for phospho mTOR detecting a band at approximately 250 kDa. Reactivity in other immunoassays is unknown.				



Images



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Western Blot: TOR/mTOR [p Ser2448] Antibody [NB600-607] - Analysis of mammalian target of rapamycin (mTOR) phosphorylation during microglial activation. Whole-cell lysates were prepared from microglial cells activated by control-conditioned medium (C-CM) (A) or CM from glioma cells activated with lipopolysaccharide (LPS)/IFNy (LI-CM) (B). Equal amounts of proteins were analyzed by western blot for phosphorylated mTOR kinase (p-mTOR), upper gel & were subsequently probed for β-actin, lower gel. Quantitation of densitometry where pmTOR values are reflected relative to those for β-actin. Data are expressed as means ± standard error of the mean of n = 1 replicate for each group, each assayed in triplicate: representative of two different experiments. Data were analyzed by one-way analysis of variance followed by Bonferroni post hoc test. ***P <0.001 versus control. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/25051975), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Α			C-CM					
		0	30	60	120	240	480	min
Ģ	o-mTOR	-						
У	β-actin	-		-	-	-	-	

Publications

Cappoli N, Mezzogori D, Tabolacci E, Coletta I THE mTOR KINASE INHIBITOR RAPAMYCIN ENHANCES THE EXPRESSION AND RELEASE OF PRO-INFLAMMATORY CYTOKINE INTERLEUKIN 6 MODULATING THE ACTIVATION OF HUMAN MICROGLIAL CELLS EXCLI J 2019-10-25 [PMID: 31645839]

Serafin V, PorcU E, Cortese G et al. SYK Targeting Represents a Potential Therapeutic Option for Relapsed Resistant Pediatric ETV6-RUNX1 B-Acute Lymphoblastic Leukemia Patients Int J Mol Sci 2019-12-07 [PMID: 31817853] (WB, Human)

Lisi L, Ciotti GMP, Chiavari M et al. Phospho-mTOR expression in human glioblastoma microglia-macrophage cells Neurochem. Int. 2019-06-10 [PMID: 31195027] (WB, IF/IHC, Human)

Rhee HJ, Shaib AH, Rehbach K et al. Pro-Inflammatory Activation of A New Immortalized Human Microglia Cell Line Brain Sci 2019-05-15 [PMID: 31096716] (WB, Human)

Zhou X, Yue GG, Chan AM et al. Eriocalyxin B, a novel autophagy inducer, exerts anti-tumor activity through the suppression of Akt/mTOR/p70S6K signaling pathway in breast cancer Biochem. Pharmacol. 2017-06-30 [PMID: 28669564] (IHC-P, Human)

Lisi L, Laudati E, Navarra P, Dello Russo C. The mTOR kinase inhibitors polarize glioma-activated microglia to express a M1 phenotype. J Neuroinflammation 2014-07-23 [PMID: 25051975] (WB, Rat)

Details:

mTOR [p Ser2448] antibody used for WB on whole-cell lysates from rat's microglial cells activated by controlconditioned medium / C-CM or CM from C6 glioma cells activated with lipopolysaccharide/LPS or IFN-gamma (Figure 1).

Lisi L, Stigliano E, Lauriola L et al. Proinflammatory-activated glioma cells induce a switch in microglial polarization and activation status, from a predominant M2b phenotype to a mixture of M1 and M2a/b polarized cells. ASN Neuro 2014-04-01 [PMID: 24689533] (WB, Rat)

Lisi L, Navarra P, Feinstein DL, Dello Russo C. The mTOR kinase inhibitor rapamycin decreases iNOS mRNA stability in astrocytes. J Neuroinflammation 2011-01-05 [PMID: 21208419] (WB, Rat)

Gupta M, Dillon SR, Ziesmer SC et al. A proliferation-inducing lig mediates follicular lymphoma B-cell proliferation cyclin D1 expression through phosphatidylinositol 3-kinase-regulated mammalian target of rapamycin activation. Blood;113(21):5206-5216. 2009-01-01 [PMID: 19321861]

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Products Related to NB600-607

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00002475-Q01-10ug	Recombinant Human TOR/mTOR 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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