

Product Datasheet

TOR/mTOR Antibody - BSA Free NB100-240

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB100-240

TOR/mTOR Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

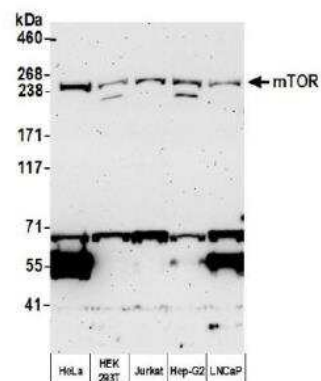
Product Description	
Host	Rabbit
Gene ID	2475
Gene Symbol	MTOR
Species	Human, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 29728793).
Immunogen	The immunogen recognized by this antibody maps to a region between residue 200 and 250 of human Mammalian Target of Rapamycin using the numbering given in entry NP_004949.1 (GeneID 2475).

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 2-10 ug/mg lysate, Immunohistochemistry-Paraffin
Application Notes	Use in Immunohistochemistry-paraffin reported in scientific literature (Suzuki H et al).

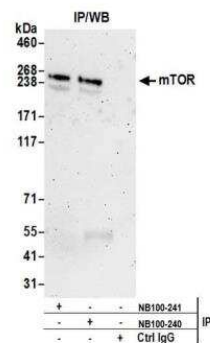


Images

Western Blot: TOR/mTOR Antibody [NB100-240] - Whole cell lysate (50 ug) from HeLa, HEK293T, Jurkat, Hep-G2, and LNCaP cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-mTOR antibody used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



Immunoprecipitation: TOR/mTOR Antibody [NB100-240] - Detection of human mTOR by western blot of immunoprecipitates. Samples: Whole cell lysate (1 mg for IP; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-mTOR antibody NB100-240 used for IP at 3 ug per reaction. mTOR was also immunoprecipitated by rabbit anti-mTOR antibody NB100-241. For blotting immunoprecipitated mTOR, NB100-240 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



Publications

Foley K, Hewes A, Garceau D et al. The APOE epsilon 3/epsilon 4 Genotype Drives Distinct Gene Signatures in the Cortex of Young Mice Front Aging Neurosci 2022-04-04 [PMID: 35370604]

A Kowalczyk, N Bourebaba, J Panchuk, K Marycz, L Bourebaba Calystegines Improve the Metabolic Activity of Human Adipose Derived Stromal Stem Cells (ASCs) under Hyperglycaemic Condition through the Reduction of Oxidative/ER Stress, Inflammation, and the Promotion of the AKT/PI3K/mTOR Pathway Biomolecules, 2022-03-16;12(3):. 2022-03-16 [PMID: 35327652]

Sikora M, ?mieszek A, Pielok A, Marycz K MiR-21-5p regulates the dynamic of mitochondria network and rejuvenates the senile phenotype of bone marrow stromal cells (BMSCs) isolated from osteoporotic SAM/P6 mice Stem cell research & therapy 2023-03-29 [PMID: 36978118] (ICC/IF, Mouse)

Details:

Dilution used in ICC/IF 1:1000

Puigoriol-Illamola D, Martinez-Damas M, Grinan-Ferre C, Pallas M Chronic Mild Stress Modified Epigenetic Mechanisms Leading to Accelerated Senescence and Impaired Cognitive Performance in Mice Preprints 2020-01-29 [PMID: 32050516] (WB, Mouse)

Xie B, Zhao M, Song D et Al. Induction of autophagy and suppression of type I IFN secretion by CSFV Autophagy 2020-03-21 [PMID: 32160078]

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, Human)

Guo Y, Wang F, Li H et al. Metformin Protects Against Spinal Cord Injury by Regulating Autophagy via the mTOR Signaling Pathway. Neurochem Res 2018-05-04 [PMID: 29728793] (Rat)

Suzuki H, Roa JC, Kawamoto T et al. Expression of insulin-like growth factor I receptor as a biomarker for predicting prognosis in biliary tract cancer patients. Mol Clin Oncol 2015-05-01 [PMID: 26137252] (IF/IHC)

Bolster DR, Vary TC, Kimball SR et al. Leucine regulates translation initiation in rat skeletal muscle via enhanced eIF4G phosphorylation. J Nutr 2004-07-01 [PMID: 15226457]

Lionello M, Blandamura S, Loreggian L, Ottaviano G, Giacomelli L, Marchese-Ragona R, Velardita C, Staffieri A, Marioni G. High mTOR expression is associated with a worse oncological outcome in laryngeal carcinoma treated with postoperative radiotherapy: a pilot study. J Oral Pathol Med;41(2):136-40. doi: 10.1111/j.1600-0714.2011.01083.x. 2012-02-01 [PMID: 21943204]

Liu DC, Yang ZL. MTDH and EphA7 are markers for metastasis and poor prognosis of gallbladder adenocarcinoma. Diagn Cytopathol. 2011-09-30 [PMID: 21964981] (IF/IHC, Human)





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Products Related to NB100-240

NBL1-10829	TOR/mTOR Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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