Product Datasheet

TOR/mTOR Antibody - BSA Free
NB100-240

Unit Size: 100 ul

Store at 4C. Do not freeze.

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Publications: 11

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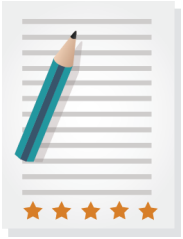


NB100-240

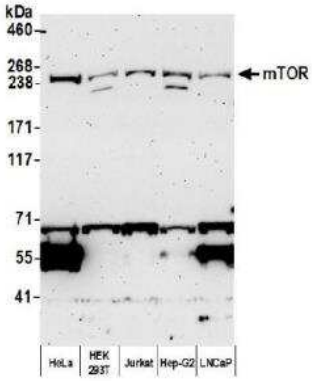
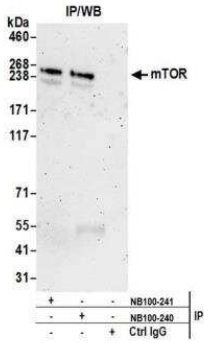
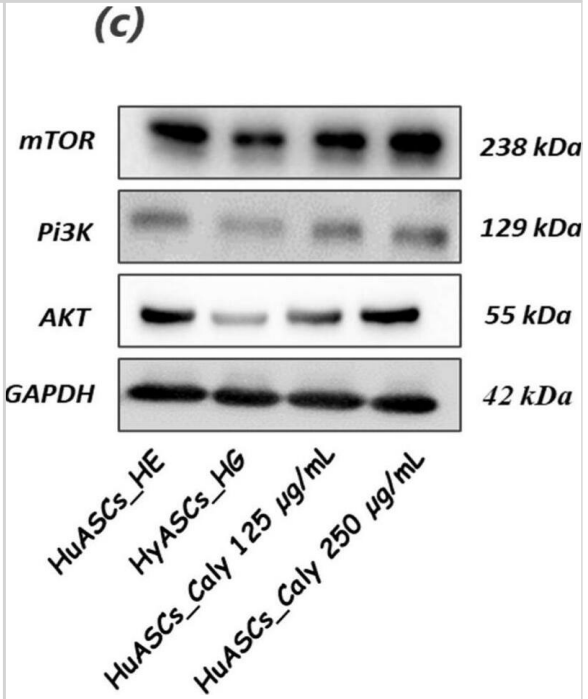
TOR/mTOR Antibody - BSA Free

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	
Description	Novus Biologicals Rabbit TOR/mTOR Antibody - BSA Free (NB100-240) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-TOR/mTOR Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, 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.	
Promoting effect of total calystegine extract on hyperglycemia-mediated Akt/Pi3K/mTOR signaling pathway failure in HuASCs cells. (a) Histograms summarizing the relative gene expression of AKT, PI3K and MTOR mRNAs. (b) Relative Akt, Pi3K and mTOR protein expression levels normalized to GAPDH housekeeping protein and evaluated using western blot. (c) Representative immunoblots for each assayed protein detected by chemiluminescence. Representative data from three independent experiments are shown +/- SD (n = 3). An asterisk (*) indicates a comparison of the HG group to the untreated healthy cells. A hashtag (#) indicates a comparison of the HG group pre-treated with calystegines to the HG untreated healthy cells. */# $p < 0.05$, ** $p < 0.01$, ***/### $p < 0.001$. HuASCs_HE: Human ASCs healthy untreated cells; HuASCs_HG: hyperglycaemic human ASCs cells exposed to a high concentration of glucose. HuASCs_Caly 125 ug/mL: hyperglycaemic human ASCs cells pre-treated with 125 µg/mL calystegines extracted and exposed to a high concentration of glucose. HuASCs_Caly 250 ug/mL: hyperglycaemic human ASCs cells pre-treated with 250 µg/mL calystegines extracted and exposed to a high concentration of glucose. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/35327652), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

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 Kowalczuk, 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
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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