

Anti-Phospho-mTOR (S2448) Rabbit Monoclonal Antibody

Catalog Number: P00003

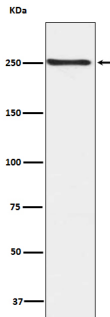
Overview

Product Name	Anti-Phospho-mTOR (S2448) Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Phospho-mTOR (S2448) Rabbit Monoclonal Antibody catalog # P00003. Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Monoclonal IFF-13
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P42345

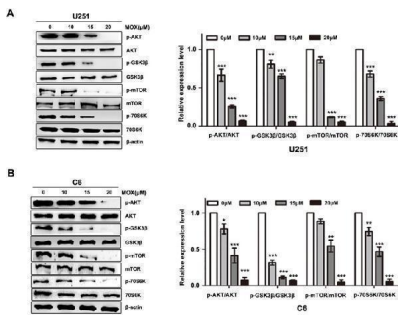
Technical Details

Immunogen	A synthesized peptide derived from human Phospho-mTOR (S2448)
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000 IHC 1:50-200

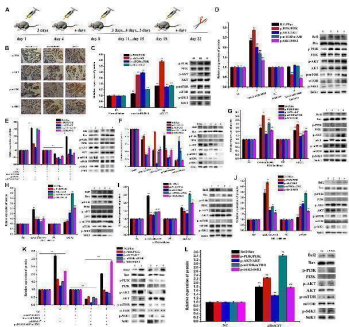
Anti-Phospho-mTOR (S2448) Rabbit Monoclonal Antibody (P00003) Images



Western blot analysis of Phospho-mTOR (S2448) expression in HEK293 cell lysate.

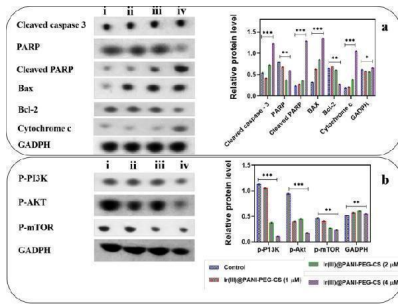


AKT/mTOR pathway is involved in MOX-induced autophagy of glioma cells. (A, B) U251 and C6 cells were incubated with MOX at different concentrations (0, 10, 15, 20 μ M) for 48 h, the effects of MOX on the levels of AKT, p-AKT (Ser473), mTOR, p-mTOR (S2448), P70S6K, p-P70S6K (Ser417), GSK3beta, p-GSK3beta were examined by western blot. Data were presented as the means \pm SD of three independent tests. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$ as compared with control group. beta-actin was used as an internal standard. Index in PubMed under a CC BY license. PMID: 32913473

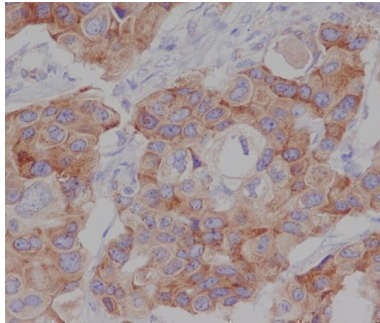


Relationship between *ciRNA13761/novel-miR-3880/ ELF2* axis and PI3K/AKT/mTOR/S6K1 pathway. (A) Schematic diagram of animal treatment. C57BL/6 mice were injected with novel-miR-3880 or si ELF2 in an interval of three days and four days alternatively. Samples were harvested at day 22. (B) Immunohistochemistry of mammary gland for p-PI3K, p-AKT, p-mTOR and p-S6K1 in Normal Saline, novel-miR-3880 and si ELF2 groups. (C) Protein phosphorylation level of PI3K, AKT, mTOR and S6K1 in mammary gland. (D,E) Effects of novel-miR-3880 and ELF2 on Bcl2/Bax pathway and protein phosphorylation level of PI3K, AKT, mTOR and S6K1 in MEC. (F) PI3K, AKT, mTOR and S6K1 inhibitors suppressed the phosphorylation of PI3K, AKT, mTOR and S6K1 in MEC. (G-J) The role of novel-miR-3880 and si ELF2 in Bcl2/Bax and protein phosphorylation level of PI3K, AKT, mTOR and S6K1 in MEC with PI3K, AKT, mTOR or S6K1 inhibited. (K) Regulation of *ciRNA13761* on Bcl2/Bax and PI3K, AKT, mTOR and S6K1 phosphorylation, and the balance effects of novel-miR-3880. (L) Effects of si DOCK1 on Bcl2/Bax and PI3K, AKT, mTOR and S6K1 phosphorylation. Index in PubMed under a CC BY license. PMID: 32656203

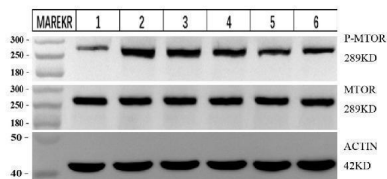
a Western blotting was used to examine mitochondrial apoptotic pathway-related proteins after treatment with control (i), PANI-PEG-CS (ii), Ir(III) complex (iii), and Ir(III)@PANI-PEG-CS (iv). Key proteins involved in apoptosis such as Bax, Bcl-2, cytochrome c, and cleaved caspase-3 were examined to better understand how each treatment



affects cell death at the mitochondrial level. b To further investigate the underlying molecular mechanisms, western blotting was used to investigate the PI3K/AKT/mTOR pathway (i), PANI-PEG-CS (ii), Ir(III) complex (iii), and Ir(III)@PANI-PEG-CS (iv). Expression levels of PI3K, AKT (total and phosphorylated), and mTOR were evaluated to assess whether this survival pathway was activated or suppressed. Protein levels were quantified and compared to the control group to determine statistical significance. * p



Immunohistochemical analysis of paraffin-embedded human breast cancer, using Phospho-mTOR (S2448) Antibody.



Western blot analysis of Phospho-mTOR (S2448) using anti-Phospho-mTOR (S2448) antibody (P00003). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: mouse 4T1 whole cell lysates, Lane 2: LPS-stimulated mouse 4T1 whole cell lysates, Lane 3: Low-dose drug mouse 4T1 whole cell lysates, Lane 4: Medium-dose drug mouse 4T1 whole cell lysates, Lane 5: High-dose drug mouse 4T1 whole cell lysates, Lane 6: Positive control drug mouse 4T1 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Phospho-mTOR (S2448) antigen affinity purified monoclonal antibody (Catalog # P00003) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with ChemiDoc MP system. A specific band was detected for Phospho-mTOR (S2448) at approximately 289 kDa. The expected band size for Phospho-mTOR (S2448) is at 289 kDa.

3 Publications Citing This Product

1. PubMed ID: 30787269, Xia Y,Zhang G,Han C,Ma K,Guo X,Wan F,Kou L,Yin S,Liu L,Huang J,Xiong N,Wang T.Microglia as modulators of exosomal alpha-synuclein transmission.Cell Death Dis.2019 Feb 20;10(3):174.doi:10.1038/s41419-019-1404-9.PMID:30787269;PMCID:PMC6382842.
2. PubMed ID: -, Lu Kong,Yongya Wu,Wangcheng Hu,Lin Liu,Yuying Xue,Geyu Liang,Mechanisms underlying reproductive toxicity induced by nickel nanoparticles identified by comprehensive gene expression analysis in GC-1 spg cells,Environmental Pollution,2021,116556,ISSN 0269-7
3. PubMed ID: 32755651, Shao CS,Zhou XH,Zheng XX,Huang Q.Ganoderic acid D induces synergistic autophagic cell death except for apoptosis in

ESCC cells. J Ethnopharmacol. 2020 Nov 15;262:113213. doi:10.1016/j.jep.2020.113213. Epub 2020 Aug 2. PMID:32755651.

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