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## Phospho-mTOR (Ser2481) Rabbit pAb

Catalog Number: bs-3495R

Target Protein: Phospho-mTOR (Ser2481)

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1µg /test), ICC/IF (1:100)

Reactivity: Human, Mouse, Rat (predicted:Rabbit, Pig, Sheep, Dog, Horse)

Predicted MW: 289 kDa

Entrez Gene: 2475

Swiss Prot: P42345

Source: KLH conjugated Synthesised phosphopeptide derived from human mTOR around the phosphorylation site of Ser2481: IH(p-S)FI.

Purification: affinity purified by Protein A

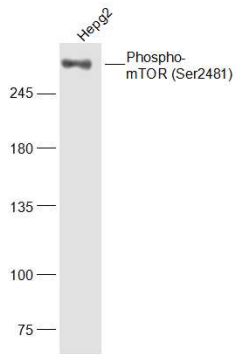
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

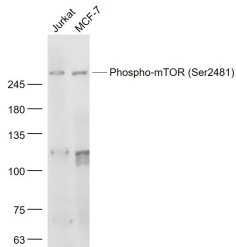
Background: mTOR is one of a family of proteins involved in cell cycle progression, DNA recombination, and DNA damage detection. In rat, it is a 289-kDa protein (symbolized RAFT1) with significant homology to the Saccharomyces cerevisiae protein TOR1 and has been shown to associate with the immunophilin FKBP12 in a rapamycin dependent fashion. The FKBP12-rapamycin complex is known to inhibit progression through the G1 cell cycle stage by interfering with mitogenic signaling pathways involved in G1 progression in several cell types, as well as in yeast. The binding of FRAP to FKBP12-rapamycin correlated with the ability of these ligands to inhibit cell cycle progression.

### VALIDATION IMAGES

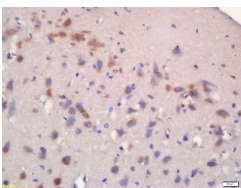
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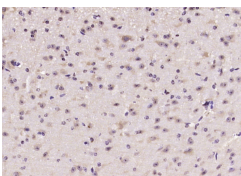
Sample: HepG2(Human) Cell Lysate at 30 ug Primary: Anti-Phospho-mTOR (Ser2481) (bs-3495R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 289 kD Observed band size: 289 kD



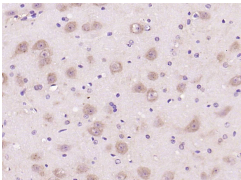
Sample: Jurkat(Human) Cell Lysate at 30 ug MCF-7(Human) Cell Lysate at 30 ug Primary: Anti- Phospho-mTOR (Ser2481) (bs-3495R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 289 kD Observed band size: 289 kD



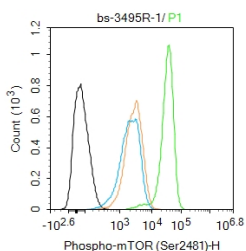
Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti- Phospho-mTOR (Ser2481) Polyclonal Antibody, Unconjugated(bs-3495R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-mTOR (Ser2481)) Polyclonal Antibody, Unconjugated (bs-3495R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-mTOR (Ser2481) ) Polyclonal Antibody, Unconjugated (bs-3495R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control:A431. Primary Antibody (green line): Rabbit Anti-Phospho-mTOR (Ser2481) antibody (bs-3495R) Dilution: 1ug/Test; Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=11.092] Juan Cen. et al. A Water-Soluble Quercetin Conjugate with Triple Targeting Exerts Neuron-Protective Effect on Cerebral Ischemia by Mitophagy Activation. ADV HEALTHC MATER. 2022 Sep;;2200817 WB ; Human . 36071574

[IF=10.753] Lu Yu. et al. Chronic arsenic exposure induces ferroptosis via enhancing ferritinophagy in chicken livers. SCI TOTAL ENVIRON. 2023 May;;164172 WB ; Chicken . 37201840

[IF=10.171] Wan Zhou. et al. Retinol binding protein 4 promotes the phenotypic transformation of vascular smooth muscle cells under high glucose condition via modulating RhoA/ROCK1 pathway. TRANSL RES. 2023 Mar;; WB ; Rat . 37003483

[IF=7.666] Jinhui Ma. et al. Extracellular Vesicles from BMSCs Prevent Glucocorticoid-Induced BMECs Injury by Regulating Autophagy via the PI3K/Akt/mTOR Pathway. CELLS-BASEL. 2022 Jan;11(13):2104 WB ; Mouse . 35805188

[IF=7.31] Wei Ruyuan. et al. Silencing TUFM Inhibits Development of Monocrotaline-Induced Pulmonary Hypertension by Regulating Mitochondrial Autophagy via AMPK/mTOR Signal Pathway. OXID MED CELL LONGEV. 2022;2022:4931611 WB ; Rat, Human . 35936222