

bsm-54471R**[Primary Antibody]****BioSS**
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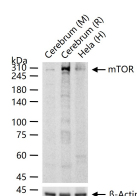
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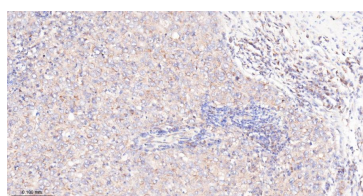
400-901-9800

mTOR Recombinant Rabbit mAb**— DATASHEET —**

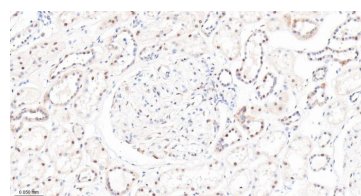
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:50-200) IHC-F (1:50-200) IF (1:50-200) IP (1:20-50) Reactivity: Human, Mouse, Rat Predicted MW.: 289 kDa Observed MW.: 300 kDa Subcellular Location: Cell membrane ,Cytoplasm
Clonality: Recombinant	CloneNo.: 3A10	
GeneID: 2475	SWISS: P42345	
Target: mTOR		
Immunogen: A synthesized peptide derived from human mTOR: 2400-2480/2549.		
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4°C.		
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 —

25 ug total protein per lane of various lysates (see on figure) probed with mTOR monoclonal antibody, unconjugated (bsm-54471R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with mTOR Monoclonal Antibody, Unconjugated(bsm-54471R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with mTOR Monoclonal Antibody, Unconjugated(bsm-54471R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

— SELECTED CITATIONS —

- **[IF=5.4]** Wenjing Li. et al. Exploring the mechanism of dihydromyricetin in alleviating psoriasis based on metabolomics, network pharmacology and experimental validation. J ETHNOPHARMACOL. 2026 Apr;360:121167 WB ;Mouse. 41539635
- **[IF=5.2]** Yong Wei. et al. Network pharmacology and experimental evaluation strategies to decipher the underlying pharmacological mechanism of Traditional Chinese Medicine CFF-1 against prostate cancer. AGING-US. 2024 Mar 31; 16(6): 5387-5411 WB ;Human. 38484140

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=4.451]** Lei Wang. et al. Neuroprotective effect of Lactobacillus plantarum DP189 on MPTP-induced Parkinson's disease model mice. J Funct Foods. 2021 Oct;85:104635 WB ;Mouse. 10.1016/j.jff.2021.104635
- **[IF=3.9]** Zhao Zhongwei. et al. Anticancer potential of Bacillus coagulans MZY531 on mouse H22 hepatocellular carcinoma cells via anti-proliferation and apoptosis induction. BMC Complementary Medicine and Therapies. 2023 Dec;23(1):1-9 WB ;Mouse. 37705007
- **[IF=3.9]** Penghui Wang. et al. Enhancing the inhibition of cell proliferation and induction of apoptosis in H22 hepatoma cells through biotransformation of notoginsenoside R1 by Lactiplantibacillus plantarum S165 into 20(S/R)-notoginsenoside R2. RSC ADV. 2023 Oct;13(42):29773-29783 WB ;Mouse. 37829710