bs-1992R **[Primary Antibody]**

MTOR Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2475 **SWISS:** P42345

Target: MTOR

Immunogen: KLH conjugated synthetic peptide derived from human mTOR : 2401-2549/2549.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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

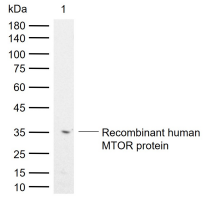
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1µg /test)
ICC/IF (1:100)

Reactivity: Human, Mouse, Rat, Chicken (predicted: Rabbit, Sheep, Cow, Dog, Horse, Goat)

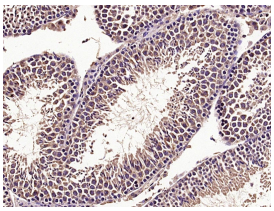
Predicted MW.: 289 kDa

Subcellular Location: Cell membrane ,Cytoplasm

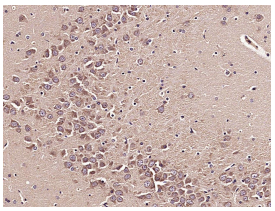
VALIDATION IMAGES



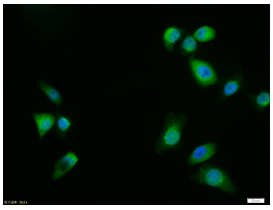
Sample: Lane 1: Recombinant human MTOR protein, N-His(bs-42341P) Primary: Anti-MTOR (bs-1992R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 289 kDa Observed band size: 35 kDa



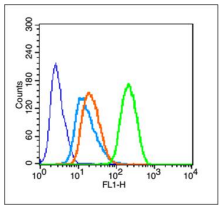
Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (MTOR) Polyclonal Antibody, Unconjugated (bs-1992R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (MTOR) Polyclonal Antibody, Unconjugated (bs-1992R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.



Tissue/cell:Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation



Blank control (blue line): Hela(fixed with 70% ethanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 30 min on ice.) Primary Antibody (green line):

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with (MTOR) polyclonal Antibody, Unconjugated (bs-1992R) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

Rabbit Anti-MOTR antibody (bs-1992R), Dilution: 1μg /10^6 cells. Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC, Dilution: 1μg /test.

SELECTED CITATIONS

- **[IF=14.3]** Yangfei Zhao. et al.α-Lipoic Acid Ameliorates Arsenic-Induced Lipid Disorders by Promoting Peroxisomal β-Oxidation and Reducing Lipophagy in Chicken Hepatocyte..Advanced Science.2025 Jan 30:e2413255. Western blot ;Chicken. 39887668
- **[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=10.041]** Peidong You. et al. Targeting and promoting atherosclerosis regression using hybrid membrane coated nanomaterials via alleviated inflammation and enhanced autophagy. Appl Mater Today. 2022 Mar;26:101386 WB ;Mouse. 10.1016/j.apmt.2022.101386
- **[IF=8.886]** Bolin Cai. et al. LncEDCH1 improves mitochondrial function to reduce muscle atrophy by interacting with sarcoplasmic/endoplasmic reticulum calcium ATPase 2. Mol Ther-Nucl Acids. 2021 Dec;: WB ;Chicken. 35024244
- **[IF=7.561]** Qihong Zhang. et al. ACSL1 Inhibits ALV-J Replication by IFN- Ⅰ Signaling and PI3K/Akt Pathway. Front Immunol. 2021; 12: 774323 WB ;Chicken. 34777393

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