bs-5329R **[Primary Antibody]**

phospho-mTOR (Tyr144) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2475 **SWISS:** P42345

Target: mTOR (Tyr144)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human mTOR around the phosphorylation site of Tyr144: AE(p-Y)VE.

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.

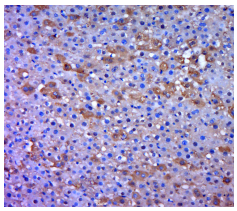
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (0.2μg/Test)

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

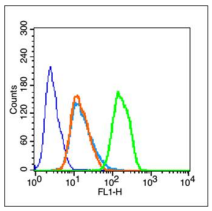
Predicted MW.: 289 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (rat liver 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 (P-mTOR (Tyr144)) Polyclonal Antibody, Unconjugated (bs5329R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



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): Rabbit Anti-Phospho-mTOR (Tyr144) antibody (bs-5329R),Dilution: 0.2μg /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=1.41]** Wei R et al. Astragaloside IV combating liver cirrhosis through the PI3K/Akt/mTOR signaling pathway. EXPERIMENTAL AND THERAPEUTIC MEDICINE.2019 17: 393-397. WB ;Rat. 10.3892/etm.2018.6966
- **[IF=1.445]** Li YH et al. Neuroprotective Effect of Fructus broussonetiae on APP/PS1 Mice via Upregulation of AKT/β-Catenin Signaling. Chin J Integr Med. 2020 Jan 4. WB ;Mouse&Rat. 31903532