bs-2537R **[Primary Antibody]**

FOXO1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2308 **SWISS:** Q12778

Target: FOXO1

Immunogen: KLH conjugated synthetic peptide derived from human FOXO1: 201-300/655.

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: This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in myogenic growth and differentiation. Translocation of this gene with PAX3 has been associated with alveolar rhabdomyosarcoma. [provided by RefSeq].

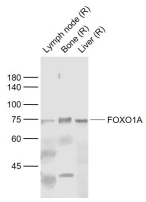
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (2ug/Test)

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

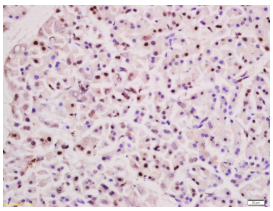
Predicted MW.: 70 kDa

Subcellular Location: Cytoplasm ,Nucleus

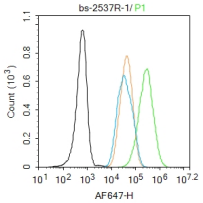
VALIDATION IMAGES



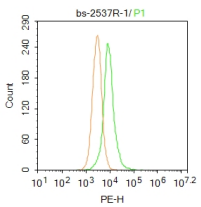
Sample: Lane 1: Lymph node (Rat) Lysate at 40 ug Lane 2: Bone (Rat) Lysate at 40 ug Lane 3: Liver (Rat) Lysate at 40 ug Primary: Anti-FOXO1A (bs-2537R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 78 kD Observed band size: 75 kD



Tissue/cell: rat pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: TBS buffer (0.01M, pH7.4), 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-FOXO1 Polyclonal Antibody, Unconjugated(bs-2537R) 1:100, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: HepG2. Primary Antibody (green line): Rabbit Anti-FOXO1 antibody (bs-2537R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1µg /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.



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SELECTED CITATIONS

- **[IF=14.528]** Xu D et al. Melatonin protects mouse testes from palmitic acid-induced lipotoxicity by attenuating oxidative stress and DNA damage in a SIRT1-dependent manner. J Pineal Res. 2020 Aug 6;e12690. IF ;mouse. 32761924
- **[IF=14.528]** Dejun Xu. et al. Melatonin protects mouse testes from palmitic acid‐induced lipotoxicity by attenuating oxidative stress and DNA damage in a SIRT1‐dependent manner. J Pineal Res. 2020 Nov;69(4):e12690 WB ;Mouse. 32761924
- **[IF=8.2]** Huiqin Guo. et al. Oat β-D-glucan ameliorates type II diabetes through TLR4/PI3K/AKT mediated metabolic axis. INT J BIOL MACROMOL. 2023 Jul;:126039 WB ;Mouse. 37516222
- **[IF=7.7]** Bing Yang. et al. Hovenia dulcis (Guaizao) polysaccharide ameliorates hyperglycemia through multiple signaling pathways in rats with type 2 diabetes mellitus. INT J BIOL MACROMOL. 2024 Dec;:138338 WB ;Rat. 39638196
- **[IF=4.803]** Liqin An. et al. Bone Morphogenetic Protein 4 (BMP4) promotes hepatic glycogen accumulation and reduces glucose level in hepatocytes through mTORC2 signaling pathway. Genes Dis. 2020 Nov;: WB,IHC ;Mouse. 10.1016/j.gendis.2020.11.004