bs-3142R **[Primary Antibody]**

phospho-FoxO1 (Ser256) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2308 **SWISS:** Q12778

Target: FoxO1 (Ser256)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human FOXO1 around the phosphorylation site of Ser256: AA(p-S)MD.

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].

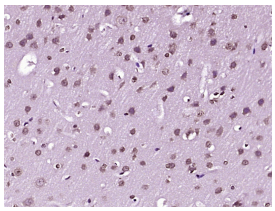
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg /Test)
ELISA (1:5000-10000)

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

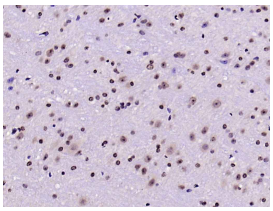
Predicted MW.: 72 kDa

Subcellular Location: Cytoplasm ,Nucleus

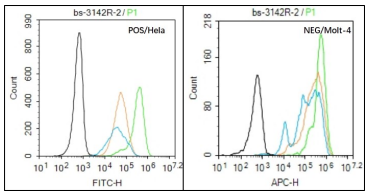
VALIDATION IMAGES



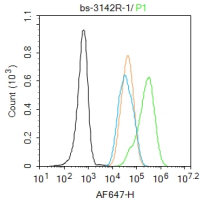
Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-FoxO1 (Ser256)) Polyclonal Antibody, Unconjugated (bs-3142R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse 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-FoxO1 (Ser256)) Polyclonal Antibody, Unconjugated (bs-3142R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Black line : Positive blank control (Hela); Negative blank control (Molt4） Green line : Primary Antibody (Rabbit Anti-Phospho-FoxO1 (Ser256) antibody (bs-3142R)) Orange line：Isotype Control Antibody (Rabbit IgG) . Blue line : Secondary Antibody (Goat anti-rabbit IgG-AF488) Hela（Positive）and Molt4（Negative control）cells (black) were fixed with 4% PFA for 10min at room temperature, permeabilized with 90% ice-cold methanol for 20 min at -20°C, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with Phospho-FoxO1 (Ser256) Antibody(bs-3142R)at 1:50 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary antibody(blue) incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).



Blank control: HepG2. Primary Antibody (green line): Rabbit Anti-Phospho-FoxO1 (Ser256) antibody (bs-3142R) 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.

SELECTED CITATIONS

- **[IF=6.513]** Rodrigo M. Pereira. et al. FOXO1 is downregulated in obese mice subjected to short-term strength training. J CELL PHYSIOL. 2022 Sep;: IHC ;Mouse. 36125908
- **[IF=6.7]** Ling-Xiao Zhao. et al. Osmundacetone ameliorates Alzheimer's-like pathologies by inhibiting β-amyloid fibrillation, oxidative damage and neuroinflammation in APP/PS1 transgenic mice. PHYTOMEDICINE. 2024 Sep;:156091 WB ;Mouse. 39332101
- **[IF=6.014]** Lucca LE et al. TIGIT signaling restores suppressor function of Th1 Tregs. JCI Insight. 2019 Feb 7;4(3). pii: 124427. FCM ;Human. 30728325
- **[IF=2.81]** Kinoshita et al. Associations between Forkhead Box O1 (FoxO1) Expression and Indicators of Hepatic Glucose Production in Transition Dairy Cows Supplemented with Dietary Nicotinic Acid. (2016) PLoS.On. 11:e0146670 WB ;Bovine. 26800252
- **[IF=2.16]** Li, Xinxin, et al. "Long-term thermal manipulation in the late incubation period can inhibit breast muscle development by activating endoplasmic reticulum stress in duck (Anasplatyrhynchos domestica)." Journal of thermal biology 70.Pt B (2017): 37. WB ;="Other Species". 29108556