bs-3140R **[Primary Antibody]**

phospho-FoxO3a (Ser253) Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2309 **SWISS:** O43524

Target: FoxO3a (Ser253)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human FoxO3a around the phosphorylation site of Ser253: AV(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. This gene likely functions as a trigger for apoptosis through expression of genes necessary for cell death. Translocation of this gene with the MLL gene is associated with secondary acute leukemia. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Jul 2008]

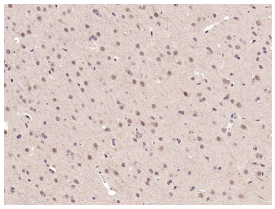
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)

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

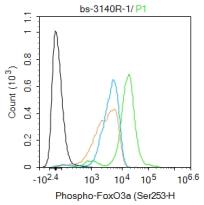
Predicted MW.: 71 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



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 (Phospho-FoxO3a (Ser253)) Polyclonal Antibody, Unconjugated (bs-3140R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.



Blank control:THP-1. Primary Antibody (green line): Rabbit Anti-Phospho-FoxO3a (Ser253) antibody (bs-3140R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5µg /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=12.511]** Li Z et al. LncIRS1 controls muscle atrophy via sponging miR‐15 family to activate IGF1‐PI3K/AKT pathway. J Cachexia Sarcopenia Muscle. 2019 Jan 30. WB ;Broiler. 30701698
- **[IF=9.4]** Jia Song. et al.Aptamer‐Conjugated Exosomes Ameliorate Diabetes‐Induced Muscle Atrophy by Enhancing SIRT1/FoxO1/3a‐Mediated Mitochondrial Function.JOURNAL OF CACHEXIA SARCOPENIA AND MUSCLE.2025 Jan

Western blot ;Mouse. 39871746

- **[IF=7.634]** Orozco-Aguilar Josué. et al. Ursodeoxycholic acid induces sarcopenia associated with decreased protein synthesis and autophagic flux. BIOL RES. 2023 Dec;56(1):1-19 WB ;Mouse. 37237400
- **[IF=6.551]** Wei J et al. Endosulfan induces cardiotoxicity through apoptosis via unbalance of pro-survival and mitochondrial-mediated apoptotic pathways. Sci Total Environ . 2020 Jul 20;727:138790. WB ;human. 32344260
- **[IF=4.97]** Morales, María Gabriela, et al. "Angiotensin-(1-7) attenuates disuse skeletal muscle atrophy via the Mas receptor." Disease Models and Mechanisms(2016): dmm-023390. WB ;Mouse. 26851244