

bs-3138R**[Primary Antibody]****Phospho-FoxO3a (Ser318 + Ser321) Rabbit pAb****BioSS**
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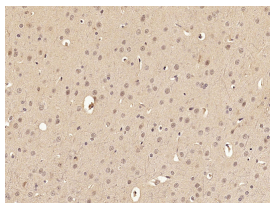
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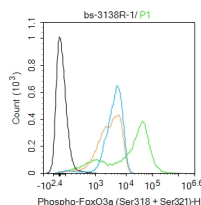
400-901-9800

— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 2309 Target: Phospho-FoxO3a (Ser318 + Ser321) Immunogen: KLH conjugated Synthesised phosphopeptide derived from human FoxO3a around the phosphorylation site of Ser318/321: NA(p-S)TV(p-S)GR. 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]	Isotype: IgG SWISS: O43524	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1ug/Test) ELISA (1:5000-10000)
		Reactivity: Human, Rat, Rabbit (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 (Ser318 + Ser321)) Polyclonal Antibody, Unconjugated (bs-3138R) 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 (Ser318 + Ser321) antibody (bs-3138R) Dilution: 1μg /10⁶ 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=4.872]** Mingkun Zhu. et al. MAPK, AKT/FoxO3a and mTOR pathways are involved in cadmium regulating the cell cycle, proliferation and apoptosis of chicken follicular granulosa cells. Ecotox Environ Safe. 2021 May;214:112091 WB ;Chicken. 33706141
- **[IF=3.3]** Hong Zhao. et al. The anti-hyperplasia effect of polysaccharide from Prunella vulgaris L. on mammary gland

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hyperplasia in rats through regulation of the AKT-FOXO3a signaling pathway and intestinal flora. J SCI FOOD AGR. 2024
Jun;; WB ;Rat. 38872513