## For Research Use Only

## FOXO3A Polyclonal antibody

Catalog Number: 10849-1-AP

**Basic Information** 

Featured Product

Catalog Number:

**119** Publications

GenBank Accession Number:



**Purification Method:** 

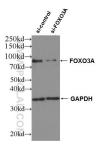
## 10849-1-AP BC021224 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Concentration: 650 ug/ml 2309 WB 1:2000-1:10000 IP 0.5-4.0 ug for 1.0-3.0 mg of total UNIPROT ID: Source: protein lysate Rabbit 043524 Full Name: Isotype: lgG forkhead box O3 Calculated MW: Immunogen Catalog Number: AG1289 673 aa, 71 kDa **Observed MW:** 72-97 kDa **Tested Applications:** Positive Controls: **Applications** WB, IP, ELISA WB: HEK-293 cells, Jurkat cells, MCF-7 cells, Neuro-2a **Cited Applications:** cells. PC-3 cells WB, IHC, IF, IP, CoIP IP : HEK-293 cells, **Species Specificity:** human, mouse, rat **Cited Species:** human, mouse, rat, pig, bovine In mammalian cells, FoxO factors act as potent transcriptional activators that upregulate the expression of **Background Information** programs of genes involved in stress resistance, cell cycle arrest, differentiation, apoptosis, autophagy, and metabolism. FOXO3 has a key role in the maintenance of adult neural and hematopoietic stem cells. It also associates with extreme longevity in humans and regulates the homeostasis of adult stem cell pools in mammals, which may contribute to longevity. Phosphorylation inhibits FOXO3 nuclear translocation that is essential for its regulation and function. The calculated molecular weight of FOXO3 is 71 kDa, but some experiments analysis using a FOXO3a specific antibody showed the expression of a 90 kDa fulllength FOXO3a protein (Full) and a 40 kDa processed FOXO3a product (Short). 90 kDa FOXO3a protein is a phosphorylated via activation of PI3K (phosphatidylinositol 3-kinase) and Akt after INS stimulation, and translocate from the nucleus to the cytoplasm. (PMID: 19427386) Notable Publications Author Pubmed ID Journal Application Yong-Li Zhang 34679694 Antioxidants (Basel) WB J Bone Miner Metab Yitong Zhao 36156740 WB.IHC Xian Ye 32946432 Med Sci Monit WB Storage Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3

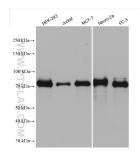
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

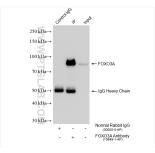
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 10849-1-AP (FOXO3A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



IP result of anti-FOXO3A (IP:10849-1-AP, 4ug; Detection:10849-1-AP 1:10000) with HEK-293 cells lysate 1600 ug.

WB result of FOXO3A antibody (10849-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FOXO3A transfected HEK-293 cells.