

À des fins de recherche uniquement

# Anticorps Monoclonal anti-FOXO3A

Numéro de catalogue: 66428-1-Ig

Phare

31 Publications



## Informations de base

Numéro de catalogue:

66428-1-Ig

Numéro d'acquisition GenBank:

BC021224

Méthode de purification:

Purification par protéine A

Taille:

150ul, Concentration: 1000 µg/ml by Bradford method using BSA as the standard;

Identification du gène (NCBI):

2309

CloneNo.:

1F12D11

Hôte:

Mouse

Nom complet:

forkhead box O3

Dilutions recommandées:

WB 1:2000-1:10000

Isotype:

IgG2a

MW calculé

673 aa, 71 kDa

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

MW observés:

85-90 kDa

IHC 1:250-1:1000

IF 1:50-1:500

Immunogen Catalog Number:

AG1289

## Applications

Applications testées:

IF, IHC, IP, WB, ELISA

Demandes citées:

ChIP, CoIP, IF, IHC, IP, WB

Spécificité de l'espèce:

Humain, rat, souris

Espèces citées:

Humain, rat, souris, Macaque

**Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (\*) A défaut, 'le démasquage de l'antigène peut être 'effectué avec un tampon citrate pH 6,0.**

Contrôles positifs:

WB : cellules HEK-293, cellules HepG2, cellules HSC-T6, cellules Jurkat, cellules K-562, cellules MCF-7, cellules Neuro-2a, cellules NIH/3T3, cellules PC-12

IP : cellules HEK-293,

IHC : tissu de cancer du sein humain, tissu de cancer de l'estomac humain, tissu de cancer du poumon humain, tissu de tumeur ovarienne humaine

IF : cellules HepG2,

## Informations générales

In mammalian cells, FoxO factors act as potent transcriptional activators that upregulate the expression of 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)

## Publications notables

Autrice	Pubmed ID	Journal	Application
Jie Deng	34565300	Bioengineered	WB
Shen Zhang	32869942	J Cell Mol Med	WB
Hao Zhang	34803509	Int J Biol Sci	WB

## Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20C

\*\*\* Les 20ul contiennent 0,1% de BSA.

For technical support and original validation data for this product please contact:

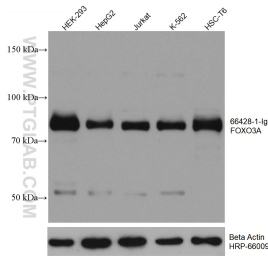
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com

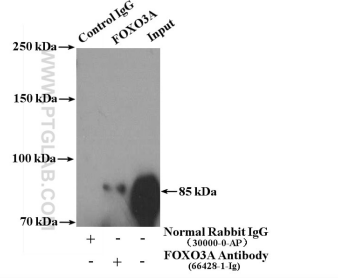
W: ptglab.com

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

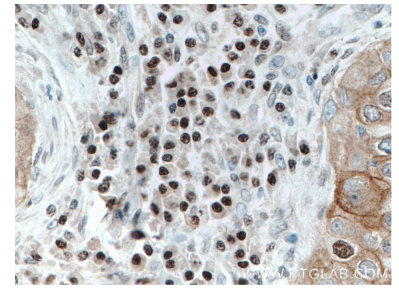
## Données de validation sélectionnées



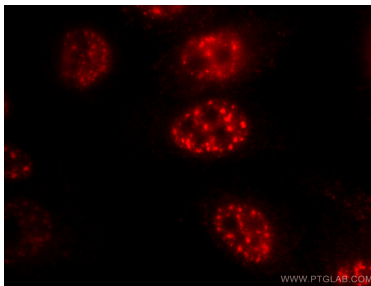
Various lysates were subjected to SDS PAGE followed by western blot with 66428-1-Ig (FOXO3A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



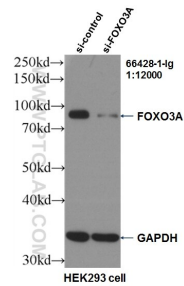
IP result of anti-FOXO3A (IP:66428-1-Ig, 4ug; Detection:66428-1-Ig 1:1000) with HEK-293 cells lysate 2200 ug.



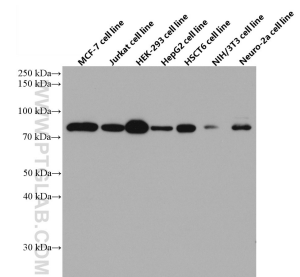
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66428-1-Ig (FOXO3A antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66428-1-Ig(FOXO3A antibody) at dilution of 1:50 and Alexa Fluor 594-conjugated AffiniPure Goat Anti-mouse IgG(H+L).



WB result of FOXO3A antibody (66428-1-Ig, 1:12,000) with si-Control and si-FOXO3A transfected HEK293 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 66428-1-Ig (FOXO3A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.