## For Research Use Only

## FOXO3A Monoclonal antibody

Catalog Number:66428-1-lg Featured Product 53 Publications



Concentration: 1000 µ g/ml Source: Mouse Isotype: IgG2a Immunogen Catalog Number:	GeneID (NCBI): 2309 UNIPROT ID: 043524 Full Name:	: 1	CloneNo.: IF12D11	
Source: Mouse Isotype: IgG2a	UNIPROT ID: O43524 Full Name:	ſ	1F17D11	
Mouse Isotype: IgG2a	O43524 Full Name:			
lsotype: IgG2a	Full Name:	,	Recommended Dilutions: WB: 1:2000-1:10000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total	
lgG2a	( ) I O-			
Immunogen Catalog Number:	forkhead box 03		protein lysate HC: 1:250-1:1000	
Immunogen Catalog Number: AG1289	Calculated MW: 673 aa, 71 kDa		IF/ICC: 1:50-1:500	
	Observed MW: 85-90 kDa			
Tested Applications:		Positive Contro	Positive Controls:	
Cited Applications:		cells, Jurkat cel	NB : HEK-293 cells, PC-12 cells, MCF-7 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T cells, Neuro-2a cells	
Species Specificity:		IP : HEK-293 cel	ls,	
		IHC : human bre	uman breast cancer tissue, human lung cance human ovary tumor tissue, human stomach	
human mayor wat solve fich man ave				
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
programs of genes involved in stu metabolism. FOXO3 has a key ro associates with extreme longevit which may contribute to longevit regulation and function. The calcu a FOXO3a specific antibody show processed FOXO3a product (Short	ress resistance, cell cycl le in the maintenance o cy in humans and regula y. Phosphorylation inhil ulated molecular weigh yed the expression of a 9 .). 90 kDa FOXO3a prote	e arrest, differentiat f adult neural and he tes the homeostasis pits FOXO3 nuclear t t of FOXO3 is 71 kDa 90 kDa fulllength FO in is a phosphorylate	ion, apoptosis, autophagy, and ematopoietic stem cells. It also of adult stem cell pools in mammal ranslocation that is essential for its but some experiments analysis usi XO3a protein (Full) and a 40 kDa ed via activation of PI3K	
		rnal	Application	
Author	Pubmed ID Jou			
			WB	
Jie Deng	34565300 Bio	engineered ell Mol Med		
	<ul> <li>WB, IHC, IF/ICC, IP, ELISA</li> <li>Cited Applications:</li> <li>WB, IHC, IF, IP, CoIP, ChIP</li> <li>Species Specificity:</li> <li>human, mouse, rat</li> <li>Cited Species:</li> <li>human, mouse, rat, zebrafish, mark</li> <li>Note-IHC: suggested antiget</li> <li>TE buffer pH 9.0; (*) Altern retrieval may be performed buffer pH 6.0</li> <li>In mammalian cells, FoxO factors</li> <li>programs of genes involved in stratetabolism. FOXO3 has a key roi associates with extreme longevitive which may contribute to longevitive a FOXO3 a specific antibody show processed FOXO3 a product (Short (phosphatidylinositol 3-kinase) a</li> </ul>	85-90 kDa Tested Applications: WB, IHC, IF/ICC, IP, ELISA Cited Applications: WB, IHC, IF, IP, CoIP, ChIP Species Specificity: human, mouse, rat Cited Species: human, mouse, rat, zebrafish, macaque Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 In mammalian cells, FoxO factors act as potent transcript programs of genes involved in stress resistance, cell cycle metabolism. FOXO3 has a key role in the maintenance of associates with extreme longevity in humans and regular which may contribute to longevity. Phosphorylation inhit regulation and function. The calculated molecular weight a FOXO3a specific antibody showed the expression of a 9 processed FOXO3a product (Short). 90 kDa FOXO3a protei (phosphatidylinositol 3-kinase) and Akt after INS stimula	85-90 kDaTested Applications:Positive ControWB, IHC, IF/ICC, IP, ELISAWB : HEK-293 ceCited Applications:cells, Jurkat celWB, IHC, IF, IP, CoIP, ChIPcells, Neuro-2aSpecies Specificity:IP : HEK-293 celhuman, mouse, ratIP : HEK-293 celCited Species:IP : HEK-293 celhuman, mouse, rat, zebrafish, macaqueIP : HEK-293 celNote-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0IF/ICC : HepG2In mammalian cells, FoxO factors act as potent transcriptional activators that programs of genes involved in stress resistance, cell cycle arrest, differentiat metabolism. FOXO3 has a key role in the maintenance of adult neural and he associates with extreme longevity. Phosphorylation inhibits FOXO3 nuclear to regulation and function. The calculated molecular weight of FOXO3 is 71 kDa a FOXO3a specific antibody showed the expression of a 90 kDa fullength FO processed FOXO3a product (Short). 90 kDa FOXO3a protein is a phosphorylatio (phosphatidylinositol 3-kinase) and Akt after INS stimulation, and translocation	

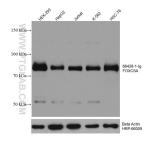
T: 4006900926

E: Proteintech-CN@ptglab.com

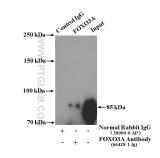
W: ptgcn.com

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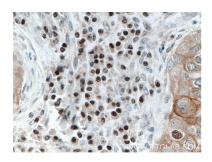
## Selected Validation Data



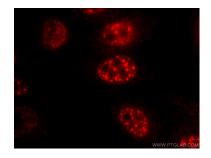
Various lysates were subjected to SDS PAGE followed by western blot with 66428-1-Ig (FOXO3A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



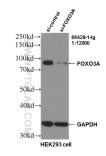
IP result of anti-FOXO3A (IP:66428-1-Ig, 4ug; Detection:66428-1-Ig 1:1000) with HEK-293 cells lysate 2200 ug.



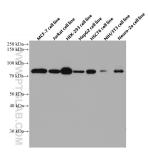
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66428-1-1g (FOXO3A antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66428-1-1g(FOXO3A antibody) at dilution of 1:50 and Alexa Fluor 594-conjugated 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.