

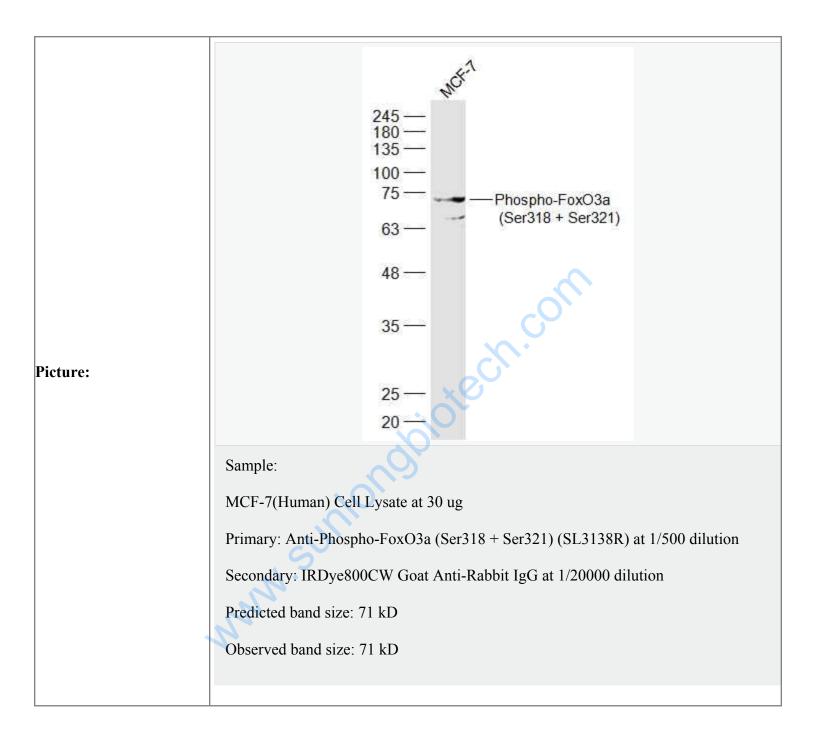
Rabbit Anti-Phospho-FoxO3a (Ser318 + Ser321) antibody

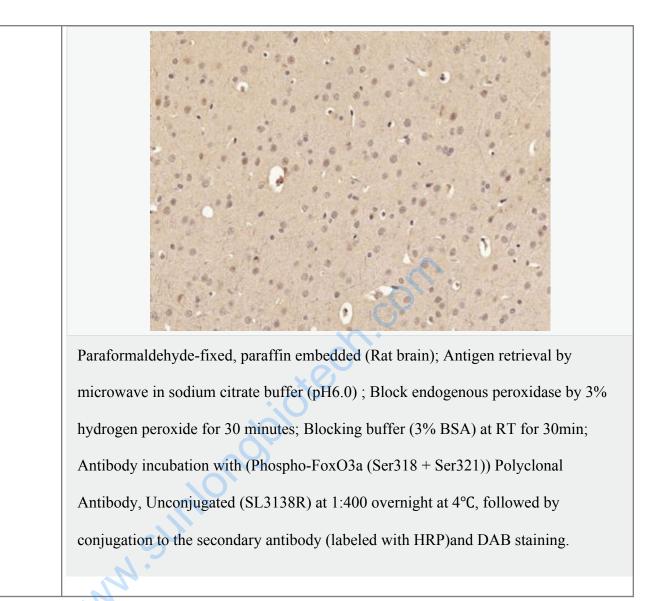
SL3138R

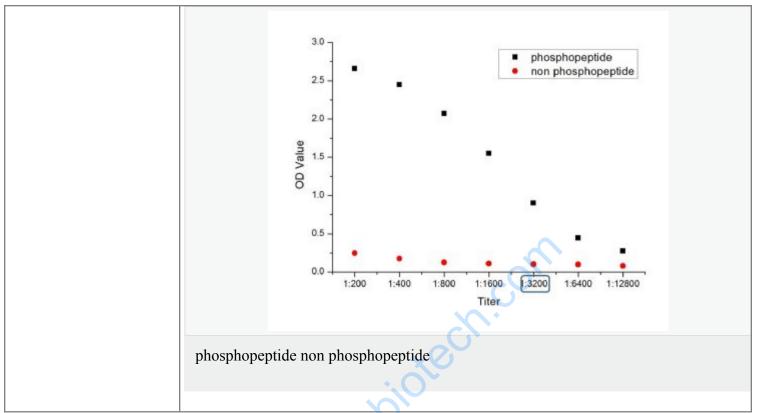
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Product Name:	Phospho-FoxO3a (Ser318 + Ser321)
Chinese Name:	磷酸化叉头蛋白3A抗体
Alias:	AF6q21; AF6q21 protein; DKFZp781A0677; FKHR2; FKHRL 1; FKHRL1;
	FKHRL1P2; Forkhead (Drosophila) homolog (rhabdomyosarcoma) like 1; Forkhead box
	O3; Forkhead box O3A; Forkhead box protein O3; Forkhead box protein O3A;
	Forkhead Drosophila homolog of in rhabdomyosarcoma like 1; Forkhead homolog
	(rhabdomyosarcoma) like 1; Forkhead in rhabdomyosarcoma like 1; Forkhead in
	rhabdomyosarcoma-like 1; FOX O3A; FOXO2; foxo3; FOXO3_HUMAN; FOXO3A;
	MGC12739; MGC31925.
Organism Species:	Rabbit C
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-
	500 (Paraffin sections need antigen repair)
	not yet tested in other applications.
	optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	71kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human FoxO3a around the
	phosphorylation site of Ser318/321:NA(p-S)TV(p-S)GR
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized
	antibody is stable at room temperature for at least one month and for greater than a year

	when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of
DuhMada	antibody the antibody is stable for at least two weeks at 2-4 °C. PubMed
PubMed:	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]
	Function: Transcriptional activator which triggers apoptosis in the absence of survival factors, including neuronal cell death upon oxidative stress. Recognizes and binds to the DNA sequence 5'-[AG]TAAA[TC]A-3'. Participates in post-transcriptional regulation of MYC: following phosphorylation by MAPKAPK5, promotes induction of miR-34b and miR-34c expression, 2 post-transcriptional regulators of MYC that bind to the 3'UTR of MYC transcript and prevent its translation.
	Subunit: Interacts with YWHAB/14-3-3-beta and YWHAZ/14-3-3-zeta, which are required for cytosolic sequestration. Upon oxidative stress, interacts with STK4/MST1, which disrupts interaction with YWHAB/14-3-3-beta and leads to nuclear translocation. Interacts with PIM1.
Product Detail:	Subcellular Location: Cytoplasm, cytosol. Nucleus. Note=Translocates to the nucleus upon oxidative stress and in the absence of survival factors.
	Tissue Specificity: Ubiquitous.
	Post-translational modifications: In the presence of survival factors such as IGF-1, phosphorylated on Thr-32 and Ser-253 by AKT1/PKB. This phosphorylated form then interacts with 14-3-3 proteins and is retained in the cytoplasm. Survival factor withdrawal induces dephosphorylation and promotes translocation to the nucleus where the dephosphorylated protein induces transcription of target genes and triggers apoptosis. Although AKT1/PKB doesn't appear to phosphorylate Ser-315 directly, it may activate other kinases that trigger phosphorylation at this residue. Phosphorylated by STK4/MST1 on Ser-209 upon oxidative stress, which leads to dissociation from YWHAB/14-3-3-beta and nuclear translocation. Phosphorylated by PIM1. Phosphorylation by AMPK leads to the activation of transcriptional activity without affecting subcellular localization. Phosphorylation by MAPKAPK5 promotes nuclear localization and DNA-binding, leading to induction of miR-34b and miR-34c expression, 2 post-transcriptional regulators of MYC that bind to the 3'UTR of MYC transcript and prevent its translation.
	DISEASE:

	Note=A chromosomal aberration involving FOXO3 is found in secondary acute
	leukemias. Translocation $t(6;11)(q21;q23)$ with MLL/HRX.
	Similarity:
	Contains 1 fork-head DNA-binding domain.
	SWISS:
	O43524
	Gene ID: 2309
	Database links:
	Entrez Gene: 2309Human Entrez Gene: 56484Mouse Entrez Gene: 294515Rat Omim: 602681Human SwissProt: O43524Human
	Entrez Gene: 56484Mouse
	Entrez Gene: 294515Rat
	<u>Omim: 602681</u> Human
	SwissProt: O43524Human
	<u>SwissProt: Q9WVH4</u> Mouse
	Unigene: 220950Human
	<u>Unigene: 338613</u> Mouse
	Unigene: 24593Rat
	Important Note:
	This product as supplied is intended for research use only, not for use in human,
4	therapeutic or diagnostic applications.
	FOXO3a是FOX(forkhead
	box)蛋白家族的一个重要成员,与细胞转化、Tumour的发生发展及其血管生成有关, 是一种已知的控制细胞循环和细胞死亡的蛋白质。







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