

FoxO1 (phospho Ser319) rabbit pAb

Cat No.:ES1315

For research use only

Overview

Product Name	FoxO1 (phospho Ser319) rabbit pAb	
Host species	Rabbit	
Applications	WB;IHC;IF;ELISA	
Species Cross-Reactivity	Human;Mouse;Rat	
Recommended dilutions	Western Blot: 1/500 - 1/2000.	
	Immunohistochemistry: 1/100 - 1/300. ELISA:	
	1/10000. Not yet tested in other applications.	
Immunogen	The antiserum was produced against synthesized	
	peptide derived from human FKHR around the	
	phosphorylation site of Ser319. AA range:286-335	
Specificity	Phospho-FoxO1 (S319) Polyclonal Antibody detects	
	endogenous levels of FoxO1 protein only when	
	phosphorylated at S319.	
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and	
	0.02% sodium azide.	
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.	
Protein Name	Forkhead box protein O1	
Gene Name	FOXO1	
Cellular localization	Cytoplasm . Nucleus . Shuttles between the	
	cytoplasm and nucleus. Largely nuclear in	
	unstimulated cells (PubMed:11311120,	
	PubMed:12228231, PubMed:19221179,	
	PubMed:21245099, PubMed:20543840,	
	PubMed:25009184). In osteoblasts, colocalizes with	
	ATF4 and RUNX2 in the nucleus (By similarity).	
	Serum deprivation increases localization to the	
	nucleus, leading to activate expression of SOX9 and	
	subsequent chondrogenesis (By similarity).	
	Insulin-induced phosphorylation at Ser-256 by	
	PKB/AKT1 leads, via stimulation of Thr-24	
	phosphorylation, to binding of 14-3-3 proteins and	
	nuclear export to the cytoplasm where it is	
	degraded by the ubiquitin-proteosomal pathway	



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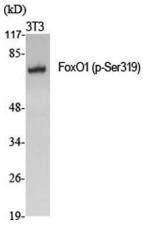
ELKbio@ELKbiotech.com

www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road, Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C



	(PubMed:11237865, PubMed:12228231).	
	Phosphorylation at Ser-249 by CDK1 disrupts	
	binding of 14-3-3 proteins and promotes nuclear	
	accumulation	
Purification	The antibody was affinity-purified from rabbit	
	antiserum by affinity-chromatography using	
	epitope-specific immunogen.	
Clonality	Polyclonal	
Concentration	1 mg/ml	
Observed band	82kD	
Human Gene ID	2308	
Human Swiss-Prot Number	Q12778	
Alternative Names	FOXO1; FKHR; FOXO1A; Forkhead box protein O1;	
	Forkhead box protein O1A; Forkhead in	
	rhabdomyosarcoma	
Background	This gene belongs to the forkhead family of	
	transcription factors which are characterized by a	
	distinct forkhead domain. The specific function of	
	this gene has not yet been determined; however, it	
	may play a role in myogenic growth and	
	differentiation. Translocation of this gene with PAX3	
	has been associated with alveolar	
	rhabdomyosarcoma. [provided by RefSeq, Jul 2008],	
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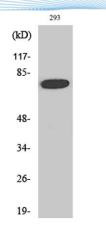
Western Blot analysis of various cells using Phospho-FoxO1 (S319) Polyclonal Antibody



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1.245

phosphopeptide

OD 450nm Reading

1.400

1.200

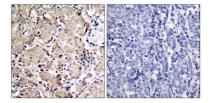
1.000

0.800 0.600 0.400 0.200

0.000

Western Blot analysis of 293 cells using Phospho-FoxO1 (S319) Polyclonal Antibody

Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using FKHR (Phospho-Ser319) Antibody



0.067

non-phosphopeptide

Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using FKHR (Phospho-Ser319) Antibody. The picture on the right is blocked with the phospho peptide.



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