

## FoxO1A (Acetyl Lys248) rabbit pAb

## Cat No.:ES20067

For research use only

## Overview

Product Name	FoxO1A (Acetyl Lys248) rabbit pAb
Host species	Rabbit
Applications	WB; ELISA
Species Cross-Reactivity	Human;Mouse;Rat
<b>Recommended dilutions</b>	WB 1:1000-2000 ELISA 1:5000-20000
Immunogen	Synthesized peptide derived from human FoxO1A
	(Acetyl Lys248)
Specificity	This antibody detects endogenous levels of
	Human, Mouse, Rat FoxO1A (Acetyl Lys248)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and
	0.02% sodium azide.
Storage	Store at -20 $^\circ\!\mathrm{C}$ . Avoid repeated freeze-thaw cycles.
Protein Name	FoxO1A (Acetyl Lys248)
Gene Name	FOXO1 FKHR FOXO1A
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
	(PubMed:11237865, PubMed:12228231).
	Phosphorylation at Ser-249 by CDK1 disrupts binding
	of 14-3-3 proteins and promotes nuclear
	accumulation



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	epitope
Clonality	Polyclon
Concentration	1 mg/m
Observed band	72kD
Human Gene ID	2308
Human Swiss-Prot Number	Q12778
Alternative Names	Forkhea
	O1A;For
Background	disease:
	are a ca
	[MIM:26
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antiserum by affinity-chromatography using -specific immunogen. nal ١L ad box protein O1 (Forkhead box protein rkhead in rhabdomyosarcoma) :Chromosomal aberrations involving FOXO1 use of rhabdomyosarcoma 2 (RMS2) 68220]; also known as alveolar rhabdomyosarcoma. Translocation (2;13)(q35;q14) with PAX3; translocation t(1;13)(p36;q14) with PAX7. The resulting protein is a transcriptional activator., function: Transcription factor., PTM: Phosphorylated by AKT1; insulin-induced (By similarity). IGF1 rapidly induces phosphorylation of Ser-256, Thr-24, and Ser-319. Phosphorylation of Ser-256 decreases DNA-binding activity and promotes the phosphorylation of Thr-24, and Ser-319, permitting phosphorylation of Ser-322 and Ser-325, probably by CK1, leading to nuclear exclusion and loss of function. Phosphorylation of Ser-329 is independent of IGF1 and leads to reduced function. Phosphorylated upon DNA damage, probably by ATM or ATR., similarity: Contains 1 fork-head DNA-binding domain., subcellular location: Shuttles between cytoplasm and nucleus., subunit: Interacts with LRPPRC., tissue specificity: Ubiquitous.,

The antibody was affinity-purified from rabbit



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