FoxO1(phospho Ser256) Rabbit Polyclonal Antibody

产品详情

产品货号	产品名称	储存条件
IM50885	FoxO1(phospho Ser256)Rabbit Polyclonal Antibody	4/-20℃

产品详情：

产品货号	IM50885
别名	O1A;Forkhead box protein O1;Forkhead box protein O1A;Forkhead in rhabdomyosarcoma
产品名称	FoxO1(phospho Ser256)Rabbit Polyclonal Antibody
类别	抗体产品
基因名称	FOXO1
蛋白名称	Forkhead box protein O1
推荐应用	WB, IHC-P, IF-P, IF-F, IF-ICC, ELISA
反应种属	Human, Mouse, Rat, Drosophila
浓度	1mg/ml
存储缓冲液	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Human Gene ID	2308
Human Swissprot No.	Q12778
Mouse Gene ID	56458
Mouse Swissprot No.	Q9R1E0

Rat Gene ID	84482
Rat Swissprot No.	G3V7R4
免疫原	The antiserum was produced against synthesized peptide derived from human FKHR around the phosphorylation site of Ser256. AA range:223-272
特异性	Phospho-FoxO1 (S256) Polyclonal Antibody detects endogenous levels of FoxO1 protein only when phosphorylated at S256.
稀释度	WB 1:500-1:2000, IHC-P 1:100-1:300, IF-P/IF-F/IF-ICC 1:200-1:1000, ELISA 1:20000.Not yet tested in other applications.
预测分子量	82kDa
运输及保存条件	-20℃/1year
宿主	Rabbit
同种型	Rabbit,IgG
背景介绍	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,itmay 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],
组织表达	Ubiquitous.
细胞定位	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

细胞定位	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(PubMed:18356527).Phosphorylation by NLK results in nuclear export(By similarity).Translocates to the nucleus upon oxidative stressinduced phosphorylation at Ser-212 by STK4/MST1(PubMed:19221179,PubMed:21245099).SGK1-mediated phosphorylation also results in nuclear translocation(By similarity).Retained in the nucleus under stress stimuli including oxidative stress,nutrient deprivation or nitric oxide (By similarity).Retained in the nucleus on methylation(By similarity).PPIA/CYPA stimulates its nuclear accumulation(PubMed:31063815).Deacetylation by SIRT6,promotes its translocation into the cytoplasm(PubMed:25009184).
信号通路	Insulin Receptor; B Cell Receptor; Protein_Acetylation
功能	disease:Chromosomal aberrations involving FOXO1 are a cause of rhabdomyosarcoma 2(RMS2)[MIM:268220];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

功能	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,probablyby 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.
纯化	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitopespecific immunogen.
Clonality	Polyclonal

注意事项：

1.本产品仅供科研使用。请勿用于医药、临床诊断或治疗，食品及化妆品等用途。请勿存放于普通住宅区。
2.为了您的安全和健康，请穿好实验服并佩戴一次性手套和口罩操作。
3.实验结果可由多种因素影响，相关处理只限于产品本身，不涉及其他赔偿。

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