



FoxO1 (phospho Ser319) Polyclonal Antibody

Catalog No BYab-01241 Isotype IgG Reactivity Human;Mouse;Rat Applications WB;IHC;IF;ELISA Gene Name FOXO1 Protein Name Forkhead box protein O1 Immunogen The antiserum was produced against synthesized peptide derive FKHR around the phosphorylation site of Ser319. AA range:286 Specificity Phospho-FoxO1 (S319) Polyclonal Antibody detects endogenou protein only when phosphorylated at S319. Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% so Source Polyclonal, Rabbit,IgG Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. Dilution WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000 IF 1:5 Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year Synonyms FOXO1; FKHR; FOXO1A; Forkhead box protein O1; Forkhead box Forkhead in rhabdomyosarcoma Observed Band 82kD Cell Pathway Cytoplasm . Nucleus . Shuttles between the cytoplasm and nucleural in unstimulated cells (PubMed:112111120, PubMed:1222 Pub	range:286-335 endogenous levels of FoxO1 d 0.02% sodium azide. m by ogen. 000 IF 1:50-200 Forkhead box protein O1A; n and nucleus. Largely oMed:12228231, 43840, PubMed:25009184). he nucleus (By similarity). us, leading to activate (By similarity). KT1 leads, via stimulation of and nuclear export to the
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Serum deprivation increases localization to the nucleus, leading expression of SOX9 and subsequent chondrogenesis (By similar Insulin-induced phosphorylation at Ser-256 by PKB/AKT1 leads, Thr-24 phosphorylation, to binding of 14-3-3 proteins and nuclear cytoplasm where it is degraded by the ubiquitin-proteosomal pat (PubMed:11237865, PubMed:12228231). Phosphorylation at Sedisrupts binding of 14-3-3 proteins and promotes nuclear accum	ation at Ser-249 by CDK1
Tissue Specificity Ubiquitous.	

Nanjing BYabscience technology Co.,Ltd

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Function	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 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 betw
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



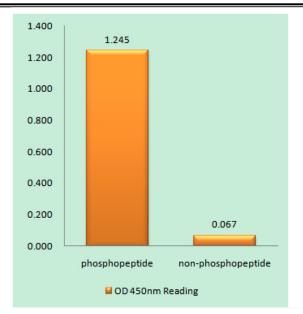


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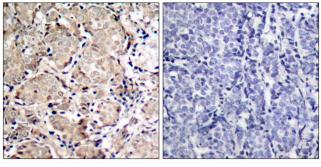




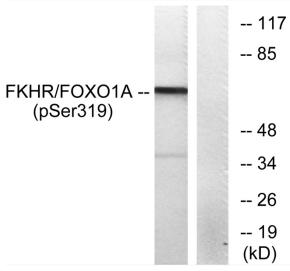




Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using FKHR (Phospho-Ser319) Antibody



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



Western blot analysis of lysates from HeLa cells treated with EGF, using FKHR (Phospho-Ser319) Antibody. The lane on the right is blocked with the phospho peptide.