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FoxO3A (phospho Ser253) Polyclonal Antibody

Catalog No	YP-Ab-01242
Isotype	IgG
Reactivity	Human;Mouse;Rat;Zebrafish
Applications	WB;IHC;IF;ELISA
Gene Name	FOXO3
Protein Name	Forkhead box protein O3
Immunogen	The antiserum was produced against synthesized peptide derived from human FKHRL1 around the phosphorylation site of Ser253. AA range:220-269
Specificity	Phospho-FoxO3A (S253) Polyclonal Antibody detects endogenous levels of FoxO3A protein only when phosphorylated at S253.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	FOXO3; FKHRL1; FOXO3A; Forkhead box protein O3; AF6q21 protein; Forkhead in rhabdomyosarcoma-like 1
Observed Band	90kD
Cell Pathway	Cytoplasm, cytosol . Nucleus . Mitochondrion matrix . Mitochondrion outer membrane ; Peripheral membrane protein ; Cytoplasmic side . Retention in the cytoplasm contributes to its inactivation (PubMed:10102273, PubMed:15084260, PubMed:16751106). Translocates to the nucleus upon oxidative stress and in the absence of survival factors (PubMed:10102273, PubMed:16751106). Translocates from the cytosol to the nucleus following dephosphorylation in response to autophagy-inducing stimuli (By similarity). Translocates in a AMPK-dependent manner into the mitochondrion in response to metabolic stress (PubMed:23283301, PubMed:29445193). Serum deprivation increases localization to the nucleus, leading to activate expression of SOX9 and subsequent chondrogenesis (By similarity).
Tissue Specificity	Ubiquitous.
Function	disease:A chromosomal aberration involving FOXO3 is found in secondary acute leukemias. Translocation t(6;11)(q21;q23) with MLL/HRX.,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



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IGF pho cyto tran tran app	uence 5'-[AG]TAAA[TC]A-3'.,PTM:In the presence of survival factors such as -1, phosphorylated on Thr-32 and Ser-253 by AKT1/PKB. This sphorylated form then interacts with 14-3-3 proteins and is retained in the oplasm. Survival factor withdrawal induces dephosphorylation and promotes islocation to the nucleus where the dephosphorylated protein induces is scription of target genes and triggers apoptosis. Although AKT1/PKB doesn't lear to phosphorylate Ser-315 directly, it may activate other kinases that trigger is sphorylation at this residue. Phosphorylated by ST
char for a of th Alte	is gene belongs to the forkhead family of transcription factors which are racterized by a distinct forkhead domain. This gene likely functions as a trigger apoptosis through expression of genes necessary for cell death. Translocation his gene with the MLL gene is associated with secondary acute leukemia. In translocation below the same protein have been erved. [provided by RefSeq, Jul 2008],
	id repeated freezing and thawing!

matters needing attention Usage suggestions

Background

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

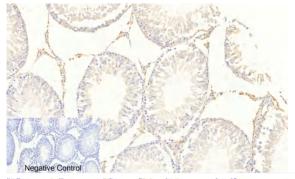




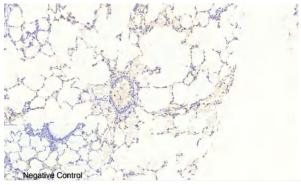




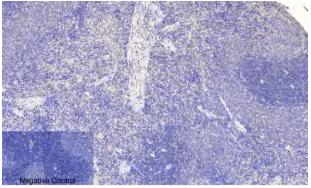
Products Images



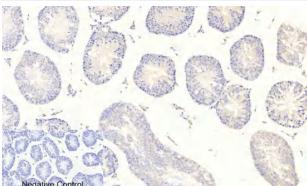
Immunohistochemical analysis of paraffin-embedded Human-colon tissue. 1,FoxO3A (phospho Ser253) Polyclonal Antibody was diluted at 1:200(4° C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-testis tissue. 1,FoxO3A (phospho Ser253) Polyclonal Antibody was diluted at 1:200(4° C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-lung tissue. 1,FoxO3A (phospho Ser253) Polyclonal Antibody was diluted at 1:200(4° C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



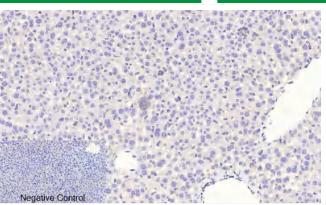
Immunohistochemical analysis of paraffin-embedded Rat-spleen tissue. 1,FoxO3A (phospho Ser253) Polyclonal Antibody was diluted at 1:200(4° C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



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Immunohistochemical analysis of paraffin-embedded Mouse-testis tissue. 1,FoxO3A (phospho Ser253) Polyclonal Antibody was diluted at 1:200(4° C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.