

FoxO4 Polyclonal Antibody

Catalog No :	YT1764
Reactivity :	Human;Mouse;Monkey
Applications :	WB;IF;ELISA
Target :	FoxO4
Fields :	>>Ras signaling pathway;>>FoxO signaling pathway;>>Shigellosis
Gene Name :	FOXO4
Protein Name :	Forkhead box protein O4
Human Gene Id :	4303
Human Swiss Prot No :	P98177
Mouse Gene Id :	54601
Mouse Swiss Prot No :	Q9WVH3
Immunogen :	The antiserum was produced against synthesized peptide derived from human FOXO4. AA range:417-466
Specificity :	FoxO4 Polyclonal Antibody detects endogenous levels of FoxO4 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 55kD

Cell Pathway : Insulin Receptor; B Cell Receptor; Protein_Acetylation

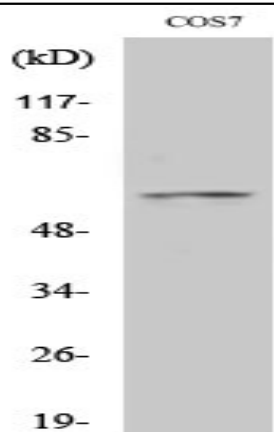
Background : This gene encodes a member of the O class of winged helix/forkhead transcription factor family. Proteins encoded by this class are regulated by factors involved in growth and differentiation indicating they play a role in these processes. A translocation involving this gene on chromosome X and the homolog of the *Drosophila* trithorax gene, encoding a DNA binding protein, located on chromosome 11 is associated with leukemia. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2010],

Function : disease:A chromosomal aberration involving FOXO4 is found in acute leukemias. Translocation t(X;11)(q13;q23) with MLL/HRX. The result is a rogue activator protein.,function:Transcription factor involved in the regulation of the insulin signaling pathway. Binds to insulin-response elements (IREs) and can activate transcription of IGF1. Down-regulates expression of HIF1A and suppresses hypoxia-induced transcriptional activation of HIF1A-modulated genes. Also involved in negative regulation of the cell cycle.,pharmaceutical:A constitutively active FOXO4 mutant where phosphorylation sites Thr-32, Ser-187 and Ser-262 have been mutated to alanine may have therapeutic potential in ERBB2/HER2-overexpressing cancers as it inhibits ERBB2-mediated cell survival, transformation and tumorigenicity.,PTM:Acetylation by CBP, which is induced by peroxidase stress, inhibits transcriptional activity. Dea

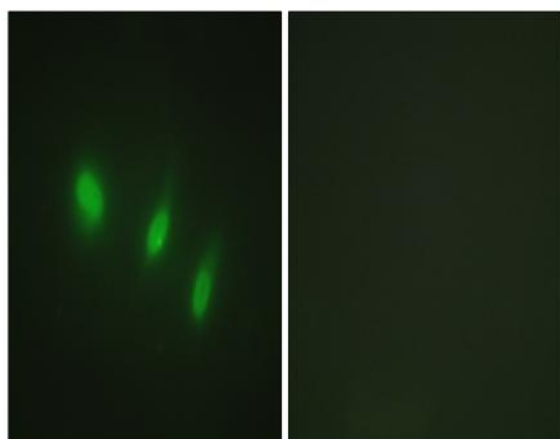
Subcellular Location : Cytoplasm. Nucleus. When phosphorylated, translocated from nucleus to cytoplasm. Dephosphorylation triggers nuclear translocation. Monoubiquitination increases nuclear localization. When deubiquitinated, translocated from nucleus to cytoplasm.

Expression : Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Isoform zeta is most abundant in the liver, kidney, and pancreas.

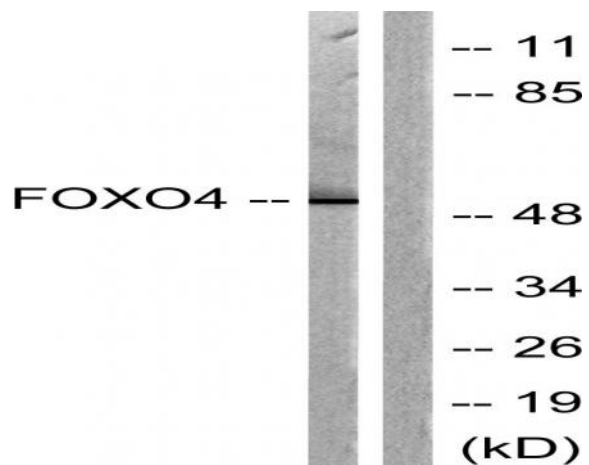
Products Images



Western Blot analysis of various cells using FoxO4 Polyclonal Antibody



Immunofluorescence analysis of HeLa cells, using FOXO4 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from K562 cells, using FOXO4 Antibody. The lane on the right is blocked with the synthesized peptide.