

**FoxO4 (Acetyl Lys189) Polyclonal Antibody**

<b>Catalog No :</b>	YK0078
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	FoxO4
<b>Fields :</b>	>>Ras signaling pathway;>>FoxO signaling pathway;>>Shigellosis
<b>Gene Name :</b>	FOXO4 AFX AFX1 MLLT7
<b>Protein Name :</b>	Forkhead box protein O4 (Fork head domain transcription factor AFX1)
<b>Human Gene Id :</b>	4303
<b>Human Swiss Prot No :</b>	P98177
<b>Mouse Swiss Prot No :</b>	Q9WVH3
<b>Immunogen :</b>	Synthetic Acetyl peptide from human protein at AA range: 189
<b>Specificity :</b>	The antibody detects endogenous FoxO4 when Acetyl occurs at Lys189
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000, ELISA 1:10000-20000
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 55kD

**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

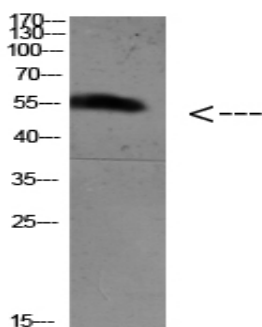
**Subcellular Location :**

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 3T3 mouse-kidney KB K562 Hela lysate, antibody was diluted at 500. Secondary antibody(catalog#:RS0002) was diluted at 1:20000