

Product Name: FoxO4 (phospho Thr451) Rabbit Polyclonal Antibody Catalog #: APRab04706

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit
Application WB,ELISA

ReactivityHuman,MouseConjugationUnconjugatedModificationPhosphorylated

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,ELISA 1:20000-1:40000

Molecular Weight 55kDa

Antigen Information

Gene Name FOXO4

FOXO4; AFX; AFX1; MLLT7; Forkhead box protein O4; Fork head domain transcription factor

Alternative Names

AFX1

 Gene ID
 4303.0

 SwissProt ID
 P98177

The antiserum was produced against synthesized peptide derived from human FOXO4 Immunogen

around the phosphorylation site of Thr451. AA range:417-466

Background

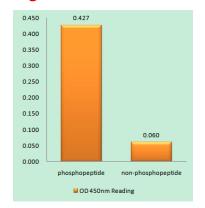


This gene encodes a member of the O class of winged helix/forkhead transcription factor family. Proteins encoded by this class are regulated by factors involved in growth and differentiation indicating they play a role in these processes. A translocation involving this gene on chromosome X and the homolog 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], 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 IGFBP1. 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 ERBB2/HER2-overexpressing cancers as it inhibits ERBB2-mediated cell survival, transformation tumorigenicity, PTM: Acetylation by CBP, which is induced by peroxidase stress, inhibits transcriptional activity. Deacetylation by SIRT1 is NAD-dependent and stimulates transcriptional activity, PTM: Phosphorylation by PKB/AKT1 inhibits transcriptional activity and is responsible for cytoplasmic localization., similarity: Contains 1 fork-head DNA-binding domain., subcellular location: When phosphorylated, translocated from nucleus to cytoplasm. Dephosphorylation triggers nuclear translocation., subunit:Interacts with CBP, MYOCD, SIRT1, SRF and YWHAZ. Acetylated by CBP and deacetylated by SIRT1. Binding of YWHAZ inhibits DNA-binding, tissue specificity: Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Isoform zeta is most abundant in the liver, kidney, and pancreas.,

Research Area

Insulin Receptor; B Cell Receptor; Protein Acetylation

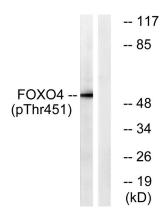
Image Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using FOXO4 (Phospho-Thr451) Antibody

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Western blot analysis of lysates from HUVEC cells treated with EGF 200ng/ml 5° , using FOXO4 (Phospho-Thr451) Antibody. The lane on the right is blocked with the phospho peptide.