Product Name: FoxO4 (phospho Thr451) Rabbit

Polyclonal Antibody Catalog #: APRab04706



Summary

Production Name FoxO4 (phospho Thr451) Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

HostRabbitApplicationWB,ELISAReactivityHuman,Mouse

Performance

Conjugation Unconjugated

Modification Phospho Antibody

Isotype IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name FOXO4

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

factor AFX1

Gene ID 4303.0

P98177.The antiserum was produced against synthesized peptide derived from human

FOXO4 around the phosphorylation site of Thr451. AA range:417-466

Application

SwissProt ID

Dilution Ratio WB 1:500-1:2000, ELISA 1:40000.Not yet tested in other applications.

Molecular Weight 55kDa

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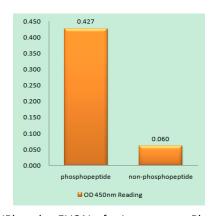
Background

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 hypoxiainduced 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 ERBB2mediated cell survival, transformation and 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

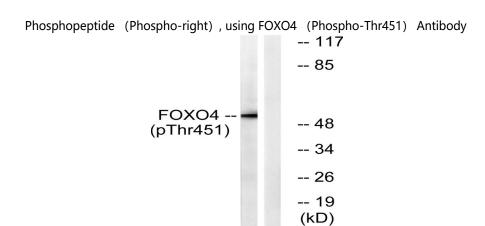


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-

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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.

Note

For research use only.

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