Product Name: FoxO4 Rabbit Polyclonal Antibody

Catalog #: APRab11109



Summary

Production Name FoxO4 Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application IF,WB,ELISA

Reactivity Human, Mouse, Monkey

Performance

ConjugationUnconjugatedModificationUnmodified

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

factor AFX1

Gene ID 4303.0

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

FOXO4. AA range:417-466

Application

WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other

Dilution Ratio

applications.

Molecular Weight 55kD

Product Name: FoxO4 Rabbit Polyclonal Antibody Catalog #: APRab11109

C EnkiLife

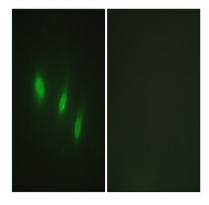
Background

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

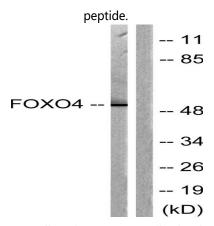


Immunofluorescence analysis of HeLa cells, using FOXO4 Antibody. The picture on the right is blocked with the synthesized

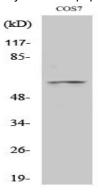
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

Product Name: FoxO4 Rabbit Polyclonal Antibody Catalog #: APRab11109





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



Western Blot analysis of various cells using FoxO4 Polyclonal Antibody

Note

For research use only.