Product Name: FoxO3A Rabbit Polyclonal Antibody

Catalog #: APRab11106



Summary

Production Name FoxO3A Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit
Application IHC,WB,

Reactivity Human, Mouse, Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

ClonalityPolyclonalFormLiquid

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

cycles.

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

Purification Affinity purification

Immunogen

Storage

Gene Name FOXO3

FOXO3; FKHRL1; FOXO3A; Forkhead box protein O3; AF6q21 protein; Forkhead in Alternative Names

rhabdomyosarcoma-like 1

Gene ID 2309.0

O43524.The antiserum was produced against synthesized peptide derived from human **SwissProt ID**

FKHRL1. AA range:220-269

Application

WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000. Not yet tested in other

Dilution Ratio

applications.

Molecular Weight 90kD

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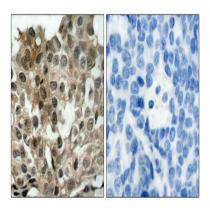
Background

This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. This gene likely functions as a trigger for apoptosis through expression of genes necessary for cell death. Translocation of this gene with the MLL gene is associated with secondary acute leukemia. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Jul 2008], disease: A chromosomal aberration involving FOXO3 is found in secondary acute leukemias. Translocation t(6;11)(q21;q23) with MLL/HRX.,function:Transcriptional activator which triggers apoptosis in the absence of survival factors, including neuronal cell death upon oxidative stress. Recognizes and binds to the DNA sequence 5'-[AG]TAAA[TC]A-3', PTM: In the presence of survival factors such as IGF-1, phosphorylated on Thr-32 and Ser-253 by AKT1/PKB. This phosphorylated form then interacts with 14-3-3 proteins and is retained in the cytoplasm. Survival factor withdrawal induces dephosphorylation and promotes translocation to the nucleus where the dephosphorylated protein induces transcription of target genes and triggers apoptosis. Although AKT1/PKB doesn't appear to phosphorylate Ser-315 directly, it may activate other kinases that trigger phosphorylation at this residue. Phosphorylated by STK4 on Ser-209 upon oxidative stress, which leads to dissociation from YWHAB/14-3-3-beta and nuclear translocation., similarity: Contains 1 fork-head DNA-binding domain., subcellular location: Translocates to the nucleus upon oxidative stress and in the absence of survival factors, subunit: Interacts with YWHAB/14-3-3-beta and YWHAZ/14-3-3-zeta, which are required for cytosolic sequestration. Upon oxidative stress, interacts with STK4, which disrupts interaction with YWHAB/14-3-3-beta and leads to nuclear translocation., tissue specificity: Ubiquitous.,

Research Area

Insulin Receptor; B Cell Receptor; PI3K/Akt; Protein_Acetylation

Image Data

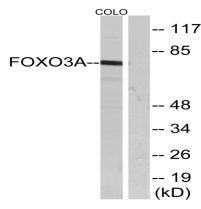


Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using FKHRL1 Antibody. The picture on the right is blocked with the synthesized peptide.

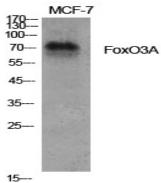
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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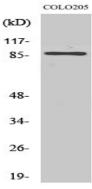




Western blot analysis of lysates from COLO205 cells, treated with serum, using FKHRL1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using FoxO3A Polyclonal Antibody diluted at 1: 1000



Western Blot analysis of Jurkat cells using FoxO3A Polyclonal Antibody diluted at 1: 1000

Note

For research use only.