

Summary

Production Name	FoxO1A Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF,IHC,WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	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

Gene Name	FOXO1
Alternative Names	FOXO1; FKHR; FOXO1A; Forkhead box protein O1; Forkhead box protein O1A; Forkhead in rhabdomyosarcoma
Gene ID	2308.0
SwissProt ID	Q12778.The antiserum was produced against synthesized peptide derived from human FOXO1A. AA range:295-344

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Molecular Weight	70kD

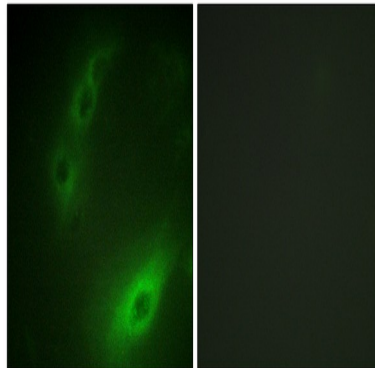
Background

This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in myogenic growth and differentiation. Translocation of this gene with PAX3 has been associated with alveolar rhabdomyosarcoma. [provided by RefSeq, Jul 2008],disease:Chromosomal aberrations involving FOXO1 are a cause of rhabdomyosarcoma 2 (RMS2) [MIM:268220]; also known as alveolar rhabdomyosarcoma. Translocation (2;13)(q35;q14) with PAX3; translocation t(1;13)(p36;q14) with PAX7. The resulting protein is a transcriptional activator.,function:Transcription factor.,PTM:Phosphorylated by AKT1; insulin-induced (By similarity). IGF1 rapidly induces phosphorylation of Ser-256, Thr-24, and Ser-319. Phosphorylation of Ser-256 decreases DNA-binding activity and promotes the phosphorylation of Thr-24, and Ser-319, permitting phosphorylation of Ser-322 and Ser-325, probably by CK1, leading to nuclear exclusion and loss of function. Phosphorylation of Ser-329 is independent of IGF1 and leads to reduced function. Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Contains 1 fork-head DNA-binding domain.,subcellular location:Shuttles between cytoplasm and nucleus.,subunit:Interacts with LRPPRC.,tissue specificity:Ubiquitous.,

Research Area

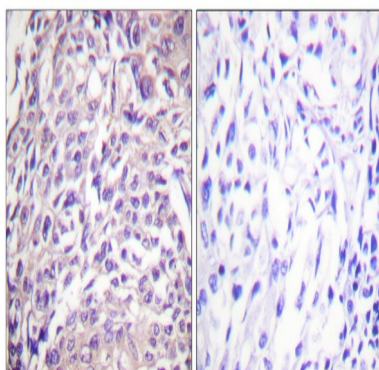
Insulin Receptor; B Cell Receptor; Protein_Acetylation

Image Data

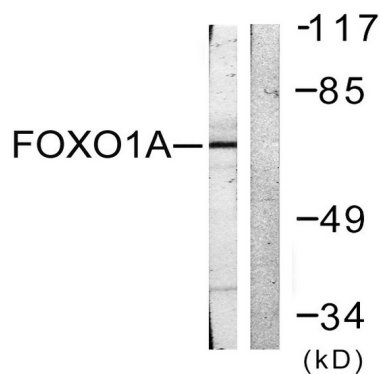


Immunofluorescence analysis of HUVEC cells, using FOXO1A Antibody. The picture on the right is blocked with the synthesized peptide.

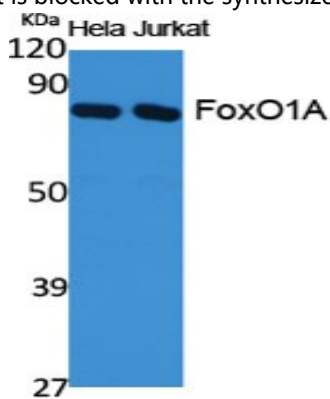
Product Name: FoxO1A Rabbit Polyclonal Antibody
Catalog #: APRab11102



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using FOXO1A Antibody. The picture on the right is blocked with the synthesized peptide.

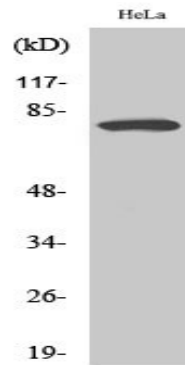


Western blot analysis of lysates from HeLa cells, treated with Serum 20% 15', using FOXO1A Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using FoxO1A Polyclonal Antibody diluted at 1: 1000

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Western Blot analysis of HeLa cells using FoxO1A Polyclonal Antibody diluted at 1 : 1000

Note

For research use only.