

## Summary

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Production Name</b> | FoxO1A Rabbit Polyclonal Antibody |
| <b>Description</b>     | Rabbit Polyclonal Antibody        |
| <b>Host</b>            | Rabbit                            |
| <b>Application</b>     | WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA   |
| <b>Reactivity</b>      | Human,Mouse,Rat                   |

## Performance

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| <b>Conjugation</b>  | Unconjugated                                                                                      |
| <b>Modification</b> | Unmodified                                                                                        |
| <b>Isotype</b>      | IgG                                                                                               |
| <b>Clonality</b>    | Polyclonal                                                                                        |
| <b>Form</b>         | Liquid                                                                                            |
| <b>Storage</b>      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| <b>Buffer</b>       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| <b>Purification</b> | Affinity purification                                                                             |

## Immunogen

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

## Application

|                       |                                                                                                                        |
|-----------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Dilution Ratio</b> | WB 1:500-1:2000, IHC-P 1:100-1:300, IF-P/IF-F/ICC/IF 1:200-1:1000, ELISA 1:10000.Not yet tested in other applications. |
|-----------------------|------------------------------------------------------------------------------------------------------------------------|

**Product Name: FoxO1A Rabbit Polyclonal Antibody**  
**Catalog #: AP Rab11102**



---

**Molecular Weight**      70kDa

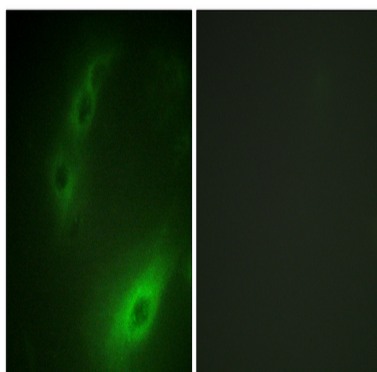
## Background

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

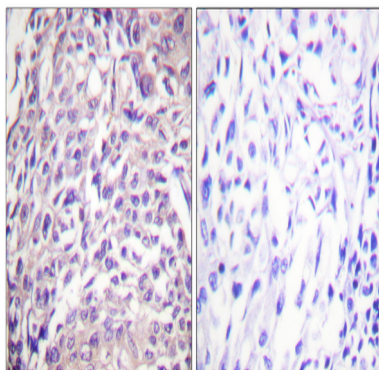
Insulin Receptor; B Cell Receptor; Protein\_Acetylation

## Image Data

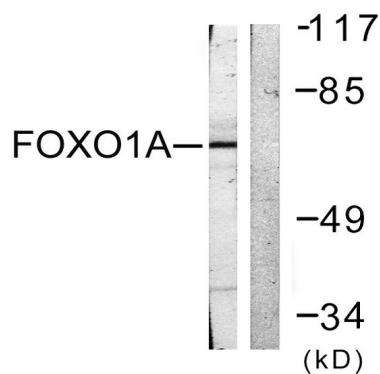


Immunofluorescence analysis of HUVEC cells, using FOXO1A Antibody. The picture on the right is blocked with the synthesized peptide.

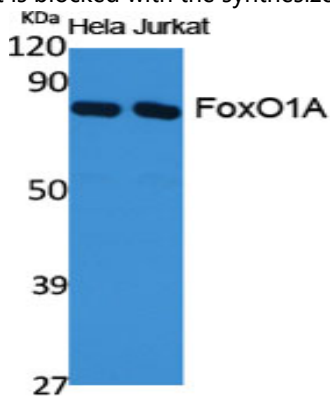
**Product Name: FoxO1A Rabbit Polyclonal Antibody**  
**Catalog #: APRab11102**



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



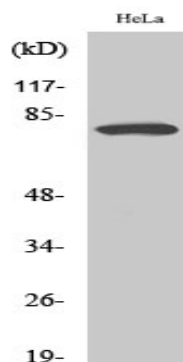
Western blot analysis of lysates from HeLa cells, treated with Serum 20% 15', using FOXO1A Antibody. The lane on the right is blocked with the synthesized peptide.



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

**Product Name: FoxO1A Rabbit Polyclonal Antibody**  
**Catalog #: APRab11102**

---



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

### **Note**

For research use only.