



# FoxO1A rabbit pAb

Cat No.:ES2365

For research use only

## Overview

<b>Product Name</b>	FoxO1A rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human FOXO1A. AA range:295-344
<b>Specificity</b>	FoxO1A Polyclonal Antibody detects endogenous levels of FoxO1A protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Forkhead box protein O1
<b>Gene Name</b>	FOXO1
<b>Cellular localization</b>	Cytoplasm . Nucleus . Shuttles between the cytoplasm and nucleus. Largely nuclear in unstimulated cells (PubMed:11311120, PubMed:12228231, PubMed:19221179, PubMed:21245099, PubMed:20543840, PubMed:25009184). In osteoblasts, colocalizes with ATF4 and RUNX2 in the nucleus (By similarity). Serum deprivation increases localization to the nucleus, leading to activate expression of SOX9 and subsequent chondrogenesis (By similarity). Insulin-induced phosphorylation at Ser-256 by PKB/AKT1 leads, via stimulation of Thr-24 phosphorylation, to binding of 14-3-3 proteins and nuclear export to the cytoplasm where it is degraded by the ubiquitin-proteosomal pathway





(PubMed:11237865, PubMed:12228231).

Phosphorylation at Ser-249 by CDK1 disrupts binding of 14-3-3 proteins and promotes nuclear accumulation

#### Purification

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

#### Clonality

Polyclonal

#### Concentration

1 mg/ml

#### Observed band

70kD

#### Human Gene ID

2308

#### Human Swiss-Prot Number

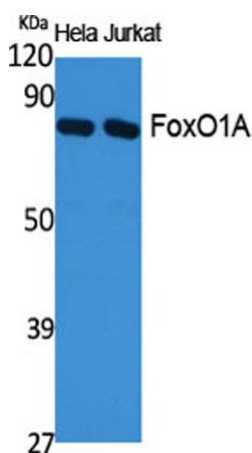
Q12778

#### Alternative Names

FOXO1; FKHR; FOXO1A; Forkhead box protein O1; Forkhead box protein O1A; Forkhead in rhabdomyosarcoma

#### 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],



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



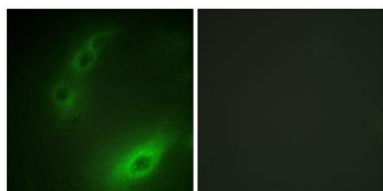


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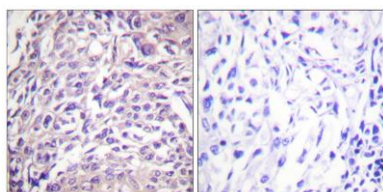


Western Blot analysis of HeLa cells using FoxO1A  
Polyclonal Antibody diluted at 1:1000

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



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



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