

**FoxO1A (phospho Ser329) rabbit pAb****Cat#: orb768177 (Manual)**

For research use only. Not intended for diagnostic use.

<b>Product Name</b>	FoxO1A (phospho Ser329) 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. ELISA: 1/5000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human FOXO1A around the phosphorylation site of Ser329. AA range:295-344
<b>Specificity</b>	Phospho-FoxO1A (S329) Polyclonal Antibody detects endogenous levels of FoxO1A protein only when phosphorylated at S329.
<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

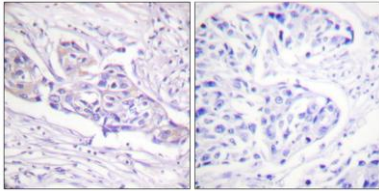
FOXO1; FKHR; FOXO1A; Forkhead box protein O1; Forkhead box protein O1A; Forkhead in rhabdomyosarcoma

## Background

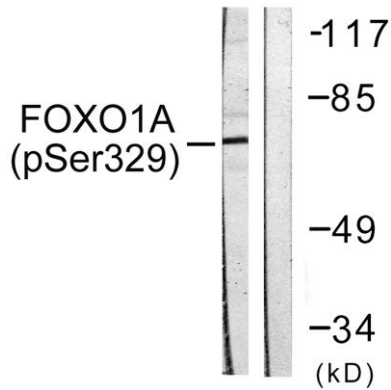
This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in myogenic growth and differentiation. Translocation of this gene with PAX3 has been associated with alveolar rhabdomyosarcoma. [provided by RefSeq, Jul 2008],



Western Blot analysis of HELA cells using Phospho-FoxO1A (S329) Polyclonal Antibody diluted at 1:2000



**Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using FOXO1A (Phospho-Ser329) Antibody. The picture on the right is blocked with the phospho peptide.**



**Western blot analysis of lysates from HeLa cells treated with Serum 20% 15', using FOXO1A (Phospho-Ser329) Antibody. The lane on the right is blocked with the phospho peptide.**