



## FoxO1 rabbit pAb

**Cat#: orb768178 (Manual)** 

For research use only. Not intended for diagnostic use.

**Product Name** FoxO1 rabbit pAb

**Host species** Rabbit

**Applications** WB;IHC;IF;ELISA

**Species Cross-Reactivity** Human; Mouse; Rat

Recommended dilutions Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in

other applications.

**Immunogen** The antiserum was produced against synthesized peptide derived from

human FKHR. AA range:223-272

FoxO1 Polyclonal Antibody detects endogenous levels of FoxO1 protein. **Specificity** 

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium

azide..

Store at -20°C. Avoid repeated freeze-thaw cycles. **Storage** 

**Protein Name** Forkhead box protein O1

Gene Name FOXO1

Cytoplasm . Nucleus . Shuttles between the cytoplasm and nucleus. Largely nuclear in unstimulated cells (PubMed:11311120, PubMed:12228231, PubMed:19221179, PubMed:21245099, PubMed:20543840, Cellular localization

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



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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 78kD

Human Gene ID 2308

**Human Swiss-Prot Number** Q12778

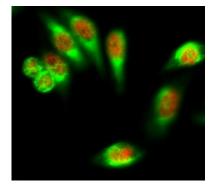
Alternative Names FOXO1; FKHR; FOXO1A; Forkhead box protein O1; Forkhead box protein

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],

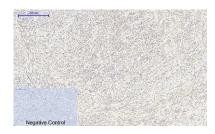


Immunofluorescence analysis of Hela cell. 1,FoxO1 Polyclonal Antibody(red) was diluted at 1:200(4° overnight). CK7 Monoclonal Antibody(12D7)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000(room temperature, 50min).





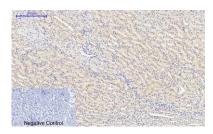
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Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1,FoxO1 Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1,FoxO1 Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1,FoxO1 Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.