



FoxO1 (phospho Ser319) rabbit pAb

Cat#: orb764190 (Manual)

For research use only. Not intended for diagnostic use.

Product Name FoxO1 (phospho Ser319) 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. ELISA:

1/10000. Not yet tested in other applications.

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

human FKHR around the phosphorylation site of Ser319. AA range:286-335

Phospho-FoxO1 (S319) Polyclonal Antibody detects endogenous levels of **Specificity**

FoxO1 protein only when phosphorylated at S319.

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





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 82kD

Human Gene ID 2308

Human Swiss-Prot Number Q12778

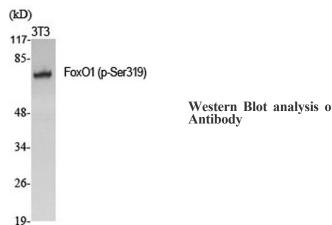
Alternative Names FOXO1; FKHR; FOXO1A; Forkhead box protein O1; Forkhead box protein

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],

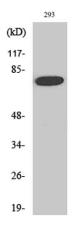


Western Blot analysis of various cells using Phospho-FoxO1 (S319) Polyclonal Antibody

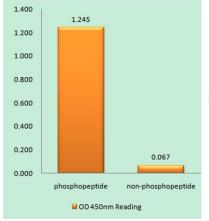




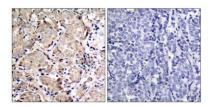
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Western Blot analysis of 293 cells using Phospho-FoxO1 (S319) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using FKHR (Phospho-Ser319) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using FKHR (Phospho-Ser319) Antibody. The picture on the right is blocked with the phospho peptide.