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| <b>Product name:</b>     | FoxO1 (phospho Ser319) Rabbit Polyclonal Antibody                                                                                          |
| <b>Cat number:</b>       | ABN04695                                                                                                                                   |
| <b>Conjugate:</b>        | Unconjugated                                                                                                                               |
| <b>Size:</b>             | 100µL                                                                                                                                      |
| <b>Clone:</b>            | Polyclonal                                                                                                                                 |
| <b>Concentration:</b>    | 1mg/ml                                                                                                                                     |
| <b>Host:</b>             | Rabbit                                                                                                                                     |
| <b>Isotype:</b>          | IgG                                                                                                                                        |
| <b>Immunogen:</b>        | The antiserum was produced against synthesized peptide derived from human FKHR around the phosphorylation site of Ser319. AA range:286-335 |
| <b>Reactivity:</b>       | Human,Mouse,Rat                                                                                                                            |
| <b>Applications:</b>     | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000                                                                     |
| <b>Molecular Weight:</b> | 82kDa                                                                                                                                      |
| <b>Purification:</b>     | Affinity purification                                                                                                                      |
| <b>Form:</b>             | Liquid                                                                                                                                     |
| <b>Buffer:</b>           | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.                                                         |
| <b>Storage:</b>          | Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.                                               |

**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.,