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# Fox01/3 (phospho Ser322/S325) rabbit pAb 

## Cat\#: orb768176 (Manual)

For research use only. Not intended for diagnostic use.

| Product Name | FoxO1/3 (phospho Ser322/S325) 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: <br> 1/5000 Not |

Immunogen The antiserum was produced against synthesized peptide derived from human FOXO1A/3A around the phosphorylation site of Ser322 and Ser325. AA range: 291-340

Specificity Phospho-FoxO1/3 (S322/S325) Polyclonal Antibody detects endogenous levels of FoxO1/3 protein only when phosphorylated at S322/S325.

Formulation

Storage
Store at $-20^{\circ} \mathrm{C}$. Avoid repeated freeze-thaw cycles.

Protein Name
Forkhead box protein O1/3
Gene Name
FOXO1/FOXO3

Cellular localization
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


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Western blot analysis of lysates from NIH/3T3 cells treated with Wortmannin 40nM 24h, using FOXO1A/3A (Phospho-Ser322+Ser325) Antibody. The lane on the right is blocked with the phospho peptide.

Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at $1: 200\left(4^{\circ}\right.$ overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3 ,Secondary antibody was diluted at 1:200(room temperature, 45 min ).

