

## Polyclonal Antibody to FOXO1/3/4-pan pThr24/32 - Aff - Purified

<b>Alternate names:</b>	FOXO1A, FOXO3A, FOXO4A, Forkhead Box Protein O1A, Forkhead in Rhabdomyosarcoma
<b>Catalog No.:</b>	AP01776PU-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	FOXO1 + FOX3 + FOX4 belong to the forkhead family of transcription factors. FOXO1 (FKHR or ForkHead in Rhabdomyosarcoma) is a 70 kDa protein. Recent studies have shown that this protein can act as either a coactivator or a corepressor of nuclear receptor activity. This action is mediated through the LXXLL motif found in the C terminus of the FOXO1A protein. The specific function of the gene has not yet been determined. FOX3 probably functions as a trigger for apoptosis through expression of genes necessary for cell death. Translocation of the FOXO3 gene with the MLL gene is associated with secondary acute leukemia. FOX4 is a forkhead transcription factor involved in the regulation of the insulin signaling pathway. It binds to insulin-response elements (IREs) and can activate transcription of IGFBP1. FOXO4 down-regulates expression of HIF1A and suppresses hypoxia-induced transcriptional activation of HIF1A-modulated genes. It is also involved in negative regulation of the cell cycle.
<b>Host:</b>	Rabbit
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction (> 95% pure by SDS-PAGE). <b>Purification:</b> Affinity Chromatography using epitope-specific immunogen. <b>Buffer System:</b> Phosphate buffered saline (PBS), pH~7.2 containing 0.05% Sodium Azide as preservative.
<b>Applications:</b>	<b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Molecular Weight:</b>	~ 70 to 82 kDa
<b>Specificity:</b>	This antibody detects endogenous levels of FOXO1/3/4-pan pThr24/32 protein.
<b>Species Reactivity:</b>	<b>Tested:</b> Human. <b>Expected from sequence similarity:</b> Mouse and Rat.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: One year from despatch.

**Pictures:**

**Immunohistochemistry(IHC)** analysis of FOXO1/3/4-pan pThr24/32 antibody (Cat.-No.: AP01776PU-N) in paraffin-embedded human breast carcinoma tissue.

