

FoxO1/3/4 (phospho-T24/32) polyclonal antibody

Catalog: BS4266

Host: Rabbit

Reactivity: Human

BackGround:

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.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 70 to 82 kDa

Swiss-Prot:

Q12778/O43524/P98177

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

Storage&Stability:

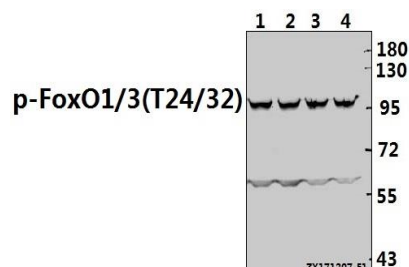
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

Specificity:

p-FoxO1/3/4 (T24/32) polyclonal antibody detects endogenous levels of FoxO1 protein only when phosphorylated at Thr24. This antibody also detects endogenous levels of FoxO3 and FoxO4 protein only when phosphorylated at Thr32.

DATA:



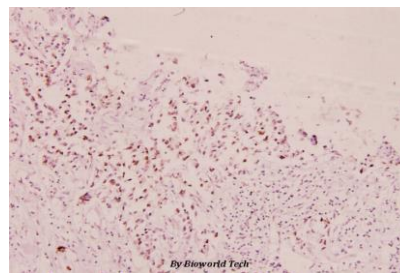
Western blot (WB) analysis of p-FoxO1/3/4 (T24/32) pAb at 1:500 dilution

Lane1:HepG2 whole cell lysate(40ug)

Lane2:Hela whole cell lysate(40ug)

Lane3:A2780 whole cell lysate(40ug)

Lane4:L02 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of p-FoxO1/3/4 (T24/32) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

Note:

For research use only, not for use in diagnostic procedure.

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