

FoxO4 (Acetyl Lys189) Rabbit pAb

CatalogNo: YK0078 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA

MW

- 55kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

ELISA 1:10000-20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthetic Acetyl peptide from human protein at AA range: 189

Specificity The antibody detects endogenous FoxO4 when Acetyl occurs at Lys189. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): SGkAP

Target Information

Gene name FOXO4 AFX AFX1 MLLT7

Protein Name Forkhead box protein O4 (Fork head domain transcription factor AFX1)

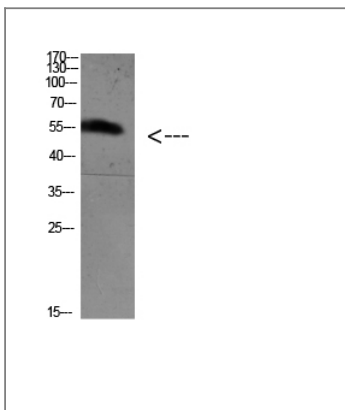
| Organism | Gene ID | UniProt ID |
|----------|-------------------------|--------------------------|
| Human | 4303 ; | P98177 ; |
| Mouse | 54601 ; | Q9WVH3 ; |

Cellular Localization Cytoplasm. Nucleus. When phosphorylated , translocated from nucleus to cytoplasm. Dephosphorylation triggers nuclear translocation. Monoubiquitination increases nuclear localization. When deubiquitinated , translocated from nucleus to cytoplasm.

Tissue specificity Heart , brain , placenta , lung , liver , skeletal muscle , kidney and pancreas. Isoform zeta is most abundant in the liver , kidney , and pancreas.

Function Disease:A chromosomal aberration involving FOXO4 is found in acute leukemias. Translocation t (X;11) (q13;q23) with MLL/HRX. The result is a rogue activator protein. ,Function:Transcription factor involved in the regulation of the insulin signaling pathway. Binds to insulin-response elements (IREs) and can activate transcription of IGF1. Down-regulates expression of HIF1A and suppresses hypoxia-induced transcriptional activation of HIF1A-modulated genes. Also involved in negative regulation of the cell cycle. ,pharmaceutical:A constitutively active FOXO4 mutant where phosphorylation sites Thr-32 , Ser-187 and Ser-262 have been mutated to alanine may have therapeutic potential in ERBB2/HER2-overexpressing cancers as it inhibits ERBB2-mediated cell survival , transformation and tumorigenicity. ,PTM:Acetylation by CBP , which is induced by peroxidase stress , inhibits transcriptional activity. Deacetylation by SIRT1 is NAD-dependent and stimulates transcriptional activity. ,PTM:Phosphorylation by PKB/AKT1 inhibits transcriptional activity and is responsible for cytoplasmic localization. ,similarity:Contains 1 fork-head DNA-binding domain. ,subcellular location:When phosphorylated , translocated from nucleus to cytoplasm. Dephosphorylation triggers nuclear translocation. ,subunit:Interacts with CBP , MYOCD , SIRT1 , SRF and YWHAZ. Acetylated by CBP and deacetylated by SIRT1. Binding of YWHAZ inhibits DNA-binding. ,tissue specificity:Heart , brain , placenta , lung , liver , skeletal muscle , kidney and pancreas. Isoform zeta is most abundant in the liver , kidney , and pancreas. ,

Validation Data



Western blot analysis of 3T3 mouse-kidney KB K562 Hela lysate, antibody was diluted at 500. Secondary antibody (catalog#:RS0002) was diluted at 1:20000

Contact information

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