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FoxO4 Antibody
Rabbit mAb
Catalog # AP90892

Specification

FoxO4 Antibody - Product Information

Application	**WB, FC, ICC, IP**
Primary Accession	P98177
Reactivity	**Rat**
Clonality	**Monoclonal**

Other Names
Forkhead box protein O4; Fork head domain transcription factor AFX1; AFX; AFX1; MLLT7; FOXO4;

Isotype	**Rabbit IgG**
Host	**Rabbit**
Calculated MW	**53684 Da**

FoxO4 Antibody - Additional Information

Dilution	**WB~~1:1000** **FC~~1:10~50** **ICC~~N/A** **IP~~N/A**
Purification	**Affinity-chromatography**
Immunogen	**A synthesized peptide derived from human FoxO4**
Description	**The Forkhead family of transcription factors is involved in tumorigenesis of rhabdomyosarcoma and acute leukemias. Transcription factor involved in the regulation of the insulin signaling pathway. Binds to insulin-response elements (IREs) and can activate transcription of IGFBP1. Down-regulates expression of HIF1A and suppresses hypoxia-induced transcriptional activation of HIF1A-modulated genes. Also involved in negative regulation of the cell cycle.**
Storage Condition and Buffer	**Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.**

FoxO4 Antibody - Protein Information

Name FOXO4

Synonyms AFX, AFX1, MLLT7

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Function
Transcription factor involved in the regulation of the insulin signaling pathway. Binds to insulin-response elements (IREs) and can activate transcription of IGFBP1. Down-regulates expression of HIF1A and suppresses hypoxia-induced transcriptional activation of HIF1A-modulated genes. Also involved in negative regulation of the cell cycle. Involved in increased proteasome activity in embryonic stem cells (ESCs) by activating expression of PSMD11 in ESCs, leading to enhanced assembly of the 26S proteasome, followed by higher proteasome activity.

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

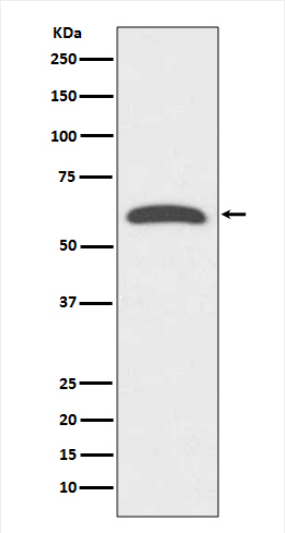
Tissue Location
Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Isoform zeta is most abundant in the liver, kidney, and pancreas

FoxO4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FoxO4 Antibody - Images



Western blot analysis of FoxO4 expression in human heart lysate.