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# FOXO4 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI16169

## Product Information

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| **Application** | WB |
| **Primary Accession** | P98177 |
| **Other Accession** | NM_005938, NP_005929 |
| **Reactivity** | Human, Mouse, Rat, Pig, Dog, Horse |
| **Predicted** | Human, Mouse, Rat, Pig, Dog, Horse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 53684 |

## Additional Information

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| **Gene ID** | 4303 |
| **Alias Symbol** | AFX, AFX1, MGC120490, MLLT7 |
| **Other Names** | Forkhead box protein O4, Fork head domain transcription factor AFX1, FOXO4, AFX, AFX1, MLLT7 |
| **Format** | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| **Reconstitution & Storage** | Add 50 ul of distilled water. Final anti-FOXO4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| **Precautions** | FOXO4 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | FOXO4 |
| **Synonyms** | AFX, AFX1, MLLT7 |
| **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. |

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| **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 |

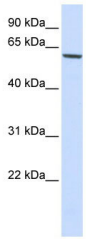
## Background

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.

## References


Peters U.,et al.Hum. Genet. 100:569-572(1997).
Borkhardt A.,et al.Oncogene 14:195-202(1997).
Yang Z.,et al.J. Biol. Chem. 277:8068-8075(2002).
Ross M.T.,et al.Nature 434:325-337(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.


## Images




WB Suggested Anti-FOXO4 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:2500
Positive Control: 293T cell lysate