

KD-Validated Anti-Forkhead box O4 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1686

Product Information

Application	WB, FC, ICC
Primary Accession	P98177
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB1470
Calculated MW	53684
Gene Name	FOXO4
Aliases	FOXO4; Forkhead Box O4; AFX1; MLLT7; Myeloid/Lymphoid Or Mixed-Lineage Leukemia (Trithorax Homolog, Drosophila); Translocated To, 7 2 3; Fork Head Domain Transcription Factor AFX1; Forkhead Box Protein O4; AFX; Myeloid/Lymphoid Or Mixed-Lineage Leukemia (Trithorax (Drosophila) Homolog); Translocated To, 7
Immunogen	A synthesized peptide derived from human FoxO4

Additional Information

Gene ID	4303
Other Names	Forkhead box protein O4, Fork head domain transcription factor AFX1, FOXO4, AFX, AFX1, MLLT7

Protein Information

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.
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

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