

MB0211

FOXO1 Antibody



- 50ul
- 100 uL

Order	021-34695924 orders@ab-mart.com
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Description:

Transcription factor that is the main target of insulin signaling and regulates metabolic homeostasis in response to oxidative stress. Binds to the insulin response element (IRE) with consensus sequence 5'-TT[G/A]TTTTG-3' and the related Daf-16 family binding element (DBE) with consensus sequence 5'-TT[G/A]TTTAC-3'. Activity suppressed by insulin. Main regulator of redox balance and osteoblast numbers and controls bone mass. Orchestrates the endocrine function of the skeleton in regulating glucose metabolism. Acts synergistically with ATF4 to suppress osteocalcin/BGLAP activity, increasing glucose levels and triggering glucose intolerance and insulin insensitivity. Also suppresses the transcriptional activity of RUNX2, an upstream activator of osteocalcin/BGLAP. In hepatocytes, promotes gluconeogenesis by acting together with PPARGC1A and CEBPA to activate the expression of genes such as IGFBP1, G6PC and PCK1. Important regulator of cell death acting downstream of CDK1, PKB/AKT1 and STK4/MST1. Promotes neural cell death. Mediates insulin action on adipose tissue. Regulates the expression of adipogenic genes such as PPARG during preadipocyte differentiation and, adipocyte size and adipose tissue-specific gene expression in response to excessive calorie intake. Regulates the transcriptional activity of GADD45A and repair of nitric oxide-damaged DNA in beta-cells. Required for the autophagic cell death induction in response to starvation or oxidative stress in a transcription-independent manner. Mediates the function of MLIP in cardiomyocytes hypertrophy and cardiac remodeling (By similarity).

Uniprot : Q12778

Alternative Names:

FKH 1; FKH1; FKHR; Forkhead (Drosophila) homolog 1 (rhabdomyosarcoma); Forkhead box O1; Forkhead box protein O1; Forkhead box protein O1A; Forkhead in rhabdomyosarcoma; Forkhead, Drosophila, homolog of, in rhabdomyosarcoma; FoxO transcription factor; foxo1; FOXO1_HUMAN; FOXO1A; OTTHUMP00000018301; AF6q21; AF6q21 protein; DKFZp781A0677; FKHR2; FKHL 1; FKHL1; FKHL1P2; Forkhead (Drosophila) homolog (rhabdomyosarcoma) like 1; Forkhead box O3; Forkhead box O3A; Forkhead box protein O3; Forkhead box protein O3A; Forkhead Drosophila homolog of in rhabdomyosarcoma like 1; Forkhead homolog (rhabdomyosarcoma) like 1; Forkhead in rhabdomyosarcoma like 1; Forkhead in rhabdomyosarcoma-like 1; FOX O3A; FOXO2; foxo3; FOXO3_HUMAN; FOXO3A; MGC12739; MGC31925; AFX; AFX1; Afxh; ALL1-fused gene from X chromosome; Fork head domain transcription factor AFX1; Forkhead box O4; Forkhead box protein O4; FOXO 4; Foxo4; FOXO4_HUMAN; MGC117660; MGC120490; Mixed lineage leukemia, translocated to, 7; MLLT7; Myeloid/lymphoid or mixed lineage leukemia (trithorax homolog, Drosophila); translocated to, 7; Myeloid/lymphoid or mixed lineage leukemia, translocated to, 7; RGD1561201;

Specificity:

FOXO1 antibody detects endogenous levels of total FOXO1.

Reactivity : Human, Mouse

Source : Mouse

Mol.Wt. : 69.7kD; 70kDa,71kDa,54kDa(Calculated).

Storage Condition:

Store at -20 °C. Stable for 12 months from date of receipt.

Application:

WB,IHC,IF/ICC,ELISA

Recommended dilution

WB 1:500-1:2000 IHC 1:50-1:500 IF/ICC 1:50-1:500 ELISA 1: 2000