



Phospho-FOXO1/FOXO3/FOXO4 (Thr24/32) Antibody

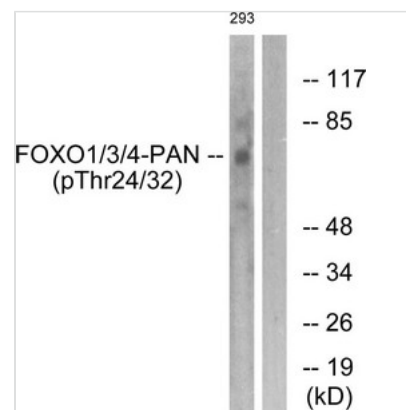
Product Code	CSB-PA196080
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q12778
Immunogen	Peptide sequence around phosphorylation site of threonine 24/32(S-C-T(p)-W-P) derived from Human FOXO1/3/4-pan .
Raised In	Rabbit
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous levels of FOXO1/3/4-pan only when phosphorylated at threonine 24/32.
Tested Applications	ELISA,WB;WB:1:500-1:1000
Relevance	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 to activate the expression of genes such as IGFBP1, G6PC and PPCK1. Important regulator of cell death acting downstream of CDK1, PKB/AKT1 and SKT4/MST1. Promotes neural cell death. Mediates insulin action on adipose. 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. Robert J. Southgate, J. Biol. Chem., Jul 2007; 282: 21176 - 21186. Susumu Kodama, Mol. Cell. Biol., Sep 2004; 24: 7931 - 7940. Dragan Marinkovic, J. Clin. Invest., Aug 2007; 117: 2133 - 2144. Marie-Liesse Asselin-Labat, Blood, Jul 2004; 104: 215 - 223.
Form	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using



epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography

Clonality	Polyclonal
Alias	FKHR; FOXO1; FKHR2; AFX; MLLT7
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	FOXO1/FOXO3/FOXO4

Image



Product Modify	Phospho-Thr24/32
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