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Datasheet for ABIN6255137

anti-FOXO1 antibody (pSer256)





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Quantity:	100 μL	
Target:	F0X01	
Binding Specificity:	pSer256	
Reactivity:	Human, Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This FOXO1 antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)	

Product Details

Immunogen:	A synthesized peptide derived from human FOXO1A around the phosphorylation site of Ser256.	
Isotype:	IgG	
Specificity:	Phospho-F0X01A (Ser256) Antibody detects endogenous levels of F0X01A only when phosphorylated at Serine 256.	
Predicted Reactivity:	Pig,Bovine,Dog,Chicken,Xenopus	
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.	

Target Details

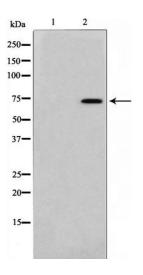
Target: F0X01

Alternative Name:	FOXO1 (FOXO1 Products)
Background:	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 an
	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).
	Gene: FOXO1
Molecular Weight:	69kDa
Gene ID:	2308
UniProt:	Q12778
Pathways:	PI3K-Akt Signaling, Cell Division Cycle, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling
	Pathway, Neurotrophin Signaling Pathway, Carbohydrate Homeostasis, Chromatin Binding,
	Regulation of Carbohydrate Metabolic Process, CXCR4-mediated Signaling Events, BCR
	Signaling
Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
	For Research Use only

Handling

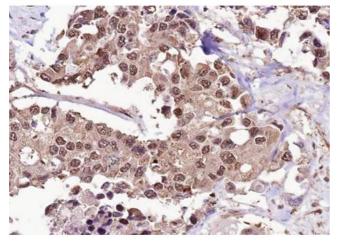
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



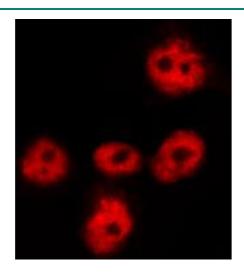
Western Blotting

Image 1. Western blot analysis of FKHR phosphorylation expression in HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



Immunohistochemistry

Image 2. ABIN6267626 at 1/100 staining human colon carcinoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Immunofluorescence (fixed cells)

Image 3. ABIN6267626 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

Please check the product details page for more images. Overall 4 images are available for ABIN6255137.