

**DATASHEET**

**FOXO1 (Acetyl-K245) Rabbit Polyclonal Antibody**

CAT. NO. APA12331

**KEY FEATURES**

Target	FOXO1 (Acetyl-K245)	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

**BACKGROUND**

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 .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
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\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

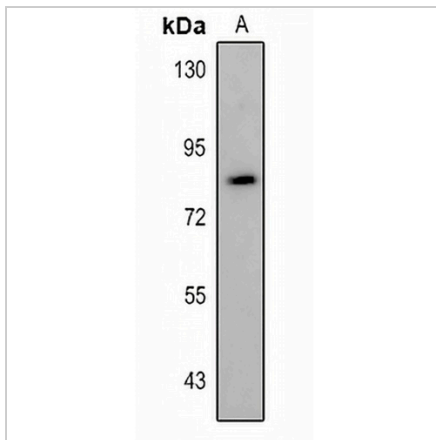
Description	Rabbit polyclonal antibody to FOXO1 (Acetyl-K245)
Specificity	Recognizes endogenous levels of FOXO1 protein only when acetylated at K245.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic acetylated peptide corresponding to residues surrounding K245 of human FOXO1 protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 69 kD; Observed: 82 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	FKHR; FOXO1A; Forkhead box protein O1; Forkhead box protein O1A; Forkhead in rhabdomyosarcoma
Gene Symbol	FOXO1
Entrez Gene	2308(Human); 56458(Mouse); 84482(Rat)
SwissProt	Q12778(Human); Q9R1E0(Mouse); G3V7R4(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Western blot analysis of FOXO1 (Acetyl-K245) expression in HEK293T (A) whole cell lysates. (Predicted band size: 69 kD; Observed band size: 82 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.