

Anti-Forkhead box protein O1 FOXO1 Antibody

Catalog Number: A00073

About FOXO1

FOXO1, also known as FKHR or ForkHead in Rhabdomyosarcoma, is a 70 kDa protein which is a ubiquitously expressed member of a subfamily of the forkhead homeotic gene family of transcription factors and shuttles between the cytoplasm and nucleus. FOXO transcription factors are key players of cell fate decisions, metabolism, stress resistance, tumor suppression and are regulated by growth factors, oxidative stress or nutrient deprivation. In insulin-responsive tissues, stress or nutrient abundance triggers phosphorylation by PKB/AKT, blocking nuclear translocation and activity. Genetic mutations involving FOXO1A are a cause of alveolar rhabdomyosarcoma (RMS2). Recent studies link the anti-tumor activity of FOXO1 and the process of autophagy.

Overview

Product Name	Anti-Forkhead box protein O1 FOXO1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Forkhead box protein O1 FOXO1 Antibody (Catalog # A00073). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	FOXO1 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	FOXO1 antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q12778

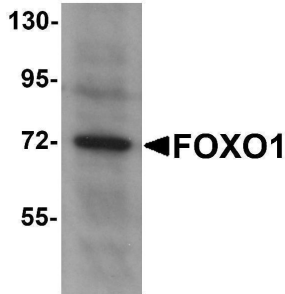
Technical Details

Immunogen	FOXO1 antibody was raised against a 15 amino acid synthetic peptide near the amino terminus of human FOXO1. The immunogen is located within the first 50 amino acids of FOXO1.
Predicted Reactive Species	Bovine, Pig
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	FOXO1 Antibody is affinity chromatography purified via peptide column.

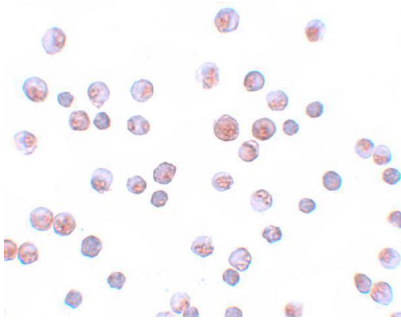
Suggested Dilutions

FOXO1 antibody can be used for detection of FOXO1 by Western blot at 1 ug/mL. Antibody can also be used for immunocytochemistry starting at 4 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples and Immunocytochemistry in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

Anti-Forkhead box protein O1 FOXO1 Antibody (A00073) Images



Western blot analysis of FOXO1 in HeLa cell lysate with FOXO1 antibody at 1 ug/mL.



Immunocytochemistry of FOXO1 in HeLa cells with FOXO1 antibody at 4 ug/mL.

1 Publications Citing This Product

1. PubMed ID: 31836014, Li L,Zhao H,Chen B,Fan Z,Li N,Yue J,Ye Q.FXR activation alleviates tacrolimus-induced post-transplant diabetes mellitus by regulating renal gluconeogenesis and glucose uptake.J Transl Med.2019 Dec 13;17(1):418.doi:10.1186/s12967-019-02170-5.PMID:31836014;PMCID:PMC6909577.

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