BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Forkhead box protein O4 FOXO4 Antibody

Catalog Number: A01819

About FOXO4

FOXO4 is a ubiquitously expressed protein 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 the absence of PI3K/AKT activation, FOXO4 localizes in the nucleus where it functions as a transcription factor. FOXO4 can also be phosphorylated by JNK following induction of reactive oxygen species (ROS), resulting in transcriptional activation and the induction of a negative feedback mechanism to counteract the ROS. It is through this mechanism that FOXO4 is thought to sensitize cancer cells to doxorubicin-mediated toxicity.

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Overview

Product Name	Anti-Forkhead box protein O4 FOXO4 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Forkhead box protein O4 FOXO4 Antibody (Catalog # A01819). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	FOXO4 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	FOXO4 antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P98177

Technical Details

Immunogen	FOXO4 antibody was raised against a 16 amino acid synthetic peptide near the amino terminus of human FOXO4. The immunogen is located within amino acids 30 - 80 of FOXO4.
Predicted Reactive Species	Rat

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Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	FOXO4 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	FOXO4 antibody can be used for detection of FOXO4 by Western blot at 0.5 - 1 ug/mL. Antibody can also be used for immunocytochemistry starting at 10 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.

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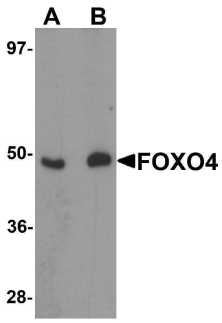
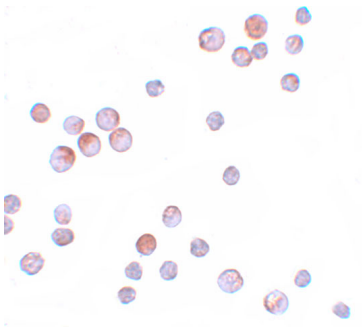
Anti-Forkhead box protein O4 FOXO4 Antibody (A01819) Images



Western blot analysis of FOXO4 in HeLa cell lysate with FOXO4 antibody at (A) 0.5 and (B) 1 ug/mL.



Immunocytochemistry of FOXO4 in HeLa cells with FOXO4 antibody at 10 ug/mL.

Anti-Forkhead box protein O4 FOXO4 Antibody

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