

FOXO4 Antibody

Catalog No: #25139

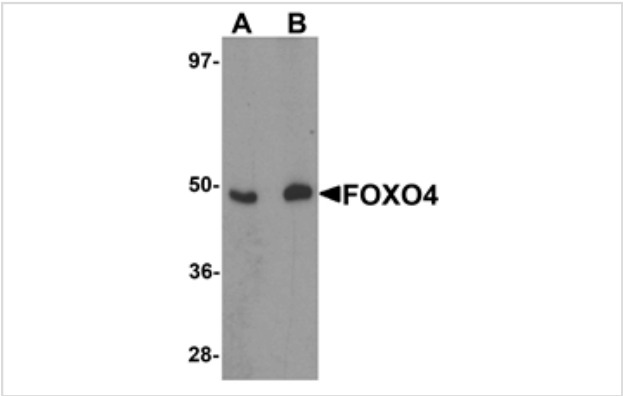


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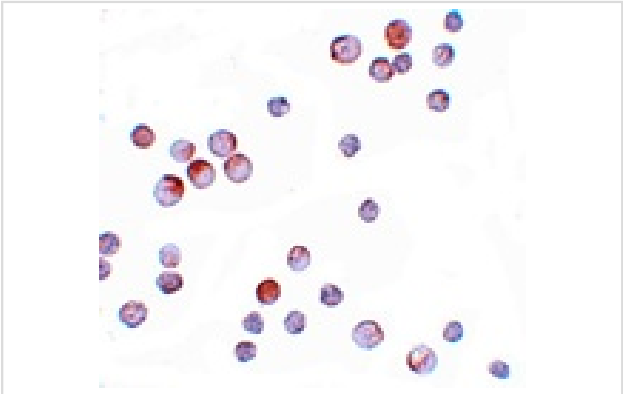
Description

Product Name	FOXO4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB ICC
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	Raised against a 16 amino acid peptide near the amino terminus of human FOXO4.
Target Name	FOXO4
Other Names	Forkhead box O4, FOXO4A, AFX, AFX1, MLLT7
Accession No.	Swiss-Prot:P98177Gene ID:4303
Uniprot	P98177
GeneID	4303;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

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.

Background

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.

Note: This product is for in vitro research use only