

## Product datasheet for **TA319684**

### FOXO4 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 0.5 - 1 ug/mL, ICC: 10 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	FOXO4 antibody was raised against a 15 amino acid synthetic peptide near the amino terminus of human FOXO4.
Formulation:	FOXO4 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	FOXO4 Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	forkhead box O4
Database Link:	<a href="#">NP_005929</a> <a href="#">Entrez Gene 4303 Human P98177</a>

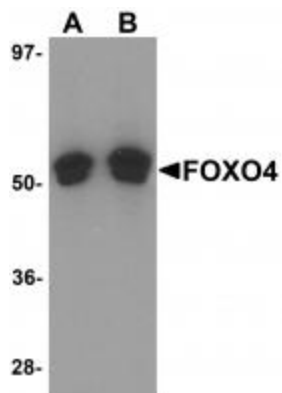
**Background:** FOXO4 Antibody: FOXO4 is a ubiquitously expressed protein member of a subfamily of the forkhead homeotic gene family of transcription factors and shuttles between the cytoplasm and nucleus. FOXO transcription factors are key players of cell fate decisions, metabolism, stress resistance, 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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Synonyms: AFX; AFX1; MLLT7

### Product images:



Western blot analysis of FOXO4 in A-20 cell lysate with FOXO4 antibody at (A) 0.5 and (B) 1  $\mu\text{g}/\text{mL}$ .



Immunocytochemistry of FOXO4 in HeLa cells with FOXO4 antibody at 10  $\mu\text{g}/\text{mL}$ .