

Product datasheet for **TA319651**

FOXO1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1 ug/mL, ICC:4 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	FOXO1 antibody was raised against a 15 amino acid synthetic peptide near the amino terminus of human FOXO1.
Formulation:	FOXO1 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	FOXO1 Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	forkhead box O1
Database Link:	NP_002006 Entrez Gene 56458 Mouse Entrez Gene 84482 Rat Entrez Gene 2308 Human Q12778



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Background:

FOXO1 Antibody: 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.

Synonyms:

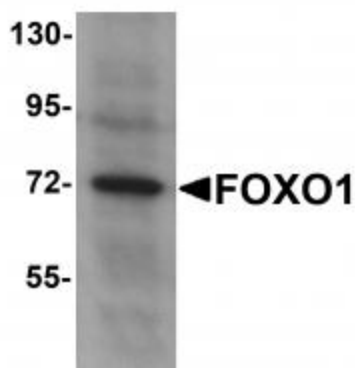
FKH1; FKHR; FOXO1A

Protein Families:

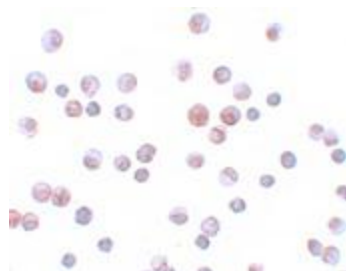
Druggable Genome, Transcription Factors

Protein Pathways:

Insulin signaling pathway, Pathways in cancer, Prostate cancer

Product 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.