

Product datasheet for **TA323073**

FOXO1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:500-1000, IHC: 1:50-100, IF: 1:100-200
Reactivity:	Human, Mouse
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide sequence around phosphorylation site of serine 319 (T-S-S(p)-N-A) derived from Human FKHR/FOXO1A.
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	70 kDa
Gene Name:	forkhead box O1
Database Link:	NP_002006 Entrez Gene 56458 Mouse Entrez Gene 2308 Human Q12778



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Background:

FKHR belongs to the forkhead family of transcription factors, which are characterized by a distinct forkhead domain. It may play a role in myogenic growth and differentiation. The mammalian DAF-16-like transcription factors, FKHR, FKHL1, and AFX, function as key regulators of insulin signaling, cell cycle progression, and apoptosis downstream of phosphoinositide 3-kinase. Gene activation through binding to insulin response sequences has been essential for mediating these functions. D-type Cyclins (in Class III) is required for FKHR mediated inhibition of cell cycle progression and transformation. FKHR gene is mapped to chromosome 13q14

Synonyms:

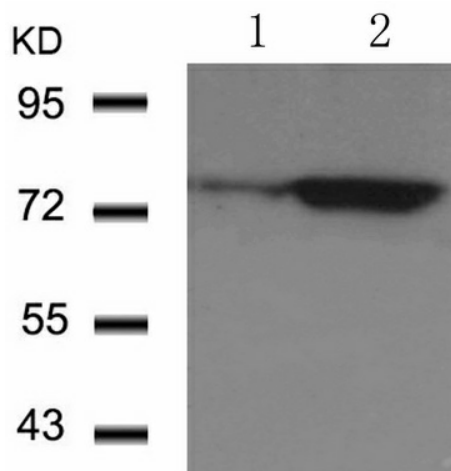
FKH1; FKHR; FOXO1A

Protein Families:

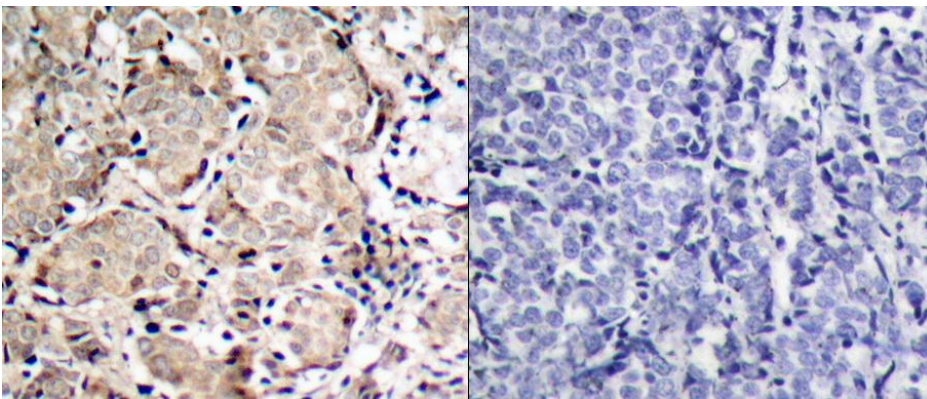
Druggable Genome, Transcription Factors

Protein Pathways:

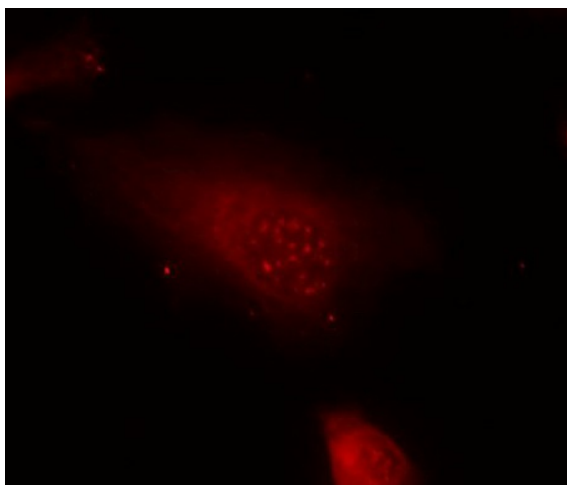
Insulin signaling pathway, Pathways in cancer, Prostate cancer

Product images:

Predicted band size: 70 kDa. Positive control: NIH/3T3 cells untreated or treated with serum starvation lysate. Recommended dilution: 1/ 500-1000. (Gel: 8%SDS-PAGE Lane 1: NIH/3T3 cells untreated with serum starvation lysate Lane 2: NIH/3T3 cells treated with serum starvation lysate Lysates: 30 ug per lane Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)



Predicted cell location: Cytoplasm; Nucleus. Positive control: Human breast carcinoma tissue. Recommended dilution: 1/ 50-100 The image on the left is immunohistochemistry of paraffin-embedded human breast carcinoma tissue using FOXO1 (Phospho-Ser319) antibody at dilution 1/50, on the right is treated with the synthetic peptide. (Original magnification:x200)



Predicted cell location: Cytoplasm; Nucleus.
Positive control: HeLa cells. Recommended dilution: 1/ 100-200. The image is immunofluorescence of methanol-fixed HeLa cells using FOXO1 (Phospho-Ser319) antibody at dilution 1/100. (Original magnification:×200)