

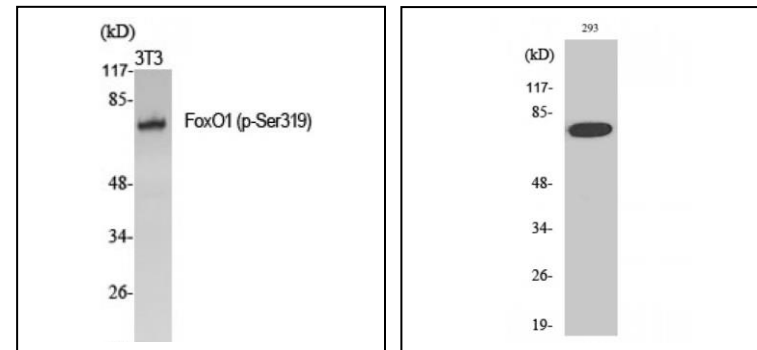
Phospho-FoxO1 (Ser319) antibody

ALTERNATE NAMES:	FOXO1; FKHR; FOXO1A; Forkhead box protein O1; Forkhead box protein O1A; Forkhead in rhabdomyosarcoma
CATALOG NO. :	A1018-100
AMOUNT:	100 ul
HOST:	Rabbit
Isotype:	IgG
CLONALITY:	Polyclonal
IMMUNOGEN:	Synthesized peptide derived from human FoxO1 around the phosphorylation site of Ser319
PURIFICATION:	Affinity purified
MOLECULAR WEIGHT:	78 kDa
FORM:	Liquid
FORMULATION:	100 ug (1mg/ml) of affinity purified rabbit phospho-FoxO1 (Ser319) polyclonal antibody in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide
SPECIES REACTIVITY:	Human, Mouse, Rat
STORAGE CONDITIONS:	Store at -20°C. Avoid repeated freeze/thaw cycles.
DESCRIPTION:	Forkhead box O (FoxO) transcription factors are downstream targets of the serine/threonine protein kinase B (PKB)/Akt. The Akt kinase regulates processes of cellular proliferation and survival. Within the family, three members (FoxO1, FoxO4, and FoxO3a) have sequence similarity to the nematode orthologue DAF-16, which mediates signaling via a pathway involving IGFR1, PI3K, and Akt. The FoxO signaling is regulated by their interactions with other intracellular proteins as well as their post-translational modifications such as phosphorylation. Increased proliferation results when forkhead transcription factors are inactivated through phosphorylation by Akt at Thr24, Ser256, and Ser319, which results in nuclear export and inhibition of transcription factor activity

SPECIFICITY: Phospho-FoxO1 (Ser319) Polyclonal Antibody detects endogenous levels of FoxO1 protein only when phosphorylated at Ser319.

APPLICATIONS: Western Blot 1:500-1:2000
Immunohistochemistry 1:100-1:300
ELISA 1:10000

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



Detection of FoxO1 by Western Blot. (Left) Western blot analysis in NIH 3T3 cell line lysate. (Right) Western Blot analysis in 293 cell line lysate. FoxO1 was detected using the Phospho-FoxO1 (Ser319) Polyclonal purified antibody.

RELATED PRODUCTS:

- FOXO1a Antibody (Cat. No. 3745-100)
- FOXO3a Antibody Cat. No. 3673-100)
- FOXO3a Blocking Peptide (Cat. No. 3673BP-50)
- AFX Antibody (Cat. No. 3404-100)
- Phospho-FoxO4/AFX Antibody (Cat. No. 3270-100)

FOR RESEARCH USE ONLY! Not to be used on humans.