

## Rabbit Anti-FOXO1 Polyclonal Antibody

CPB-695RH Rabbit(FOXO1)

Lot. No. (See product label)

### PRODUCT INFORMATION

<b>Product Overview</b>	Rabbit Anti-FOXO1 Polyclonal Antibody
<b>Antigen Description</b>	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, FOXO1, FKHL1, and AFX, function as key regulators of insulin signaling, cell cycle progression, and apoptosis downstream of phosphoinositide 3-kinase.
<b>specificity</b>	The antibody detects endogenous level of FOXO1 only when phosphorylated at serine319.
<b>Target</b>	FOXO1
<b>Immunogen</b>	Peptide sequence around phosphorylation site of serine 319 (T-S-S(p)-N-A) derived from Human FOXO1.
<b>Host</b>	Rabbit
<b>Species</b>	Human
<b>Cross Reactivity</b>	Human; Mouse
<b>conjugation</b>	N/A
<b>Applications</b>	IFA,WB,IHC

### PACKAGING

<b>Format</b>	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at -20°C /1 year

### ANTIGEN GENE INFORMATION

<b>Gene Name</b>	<a href="#">FOXO1 forkhead box O1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	FOXO1
<b>Synonyms</b>	FOXO1; forkhead box O1; FKHR, forkhead homolog in rhabdomyosarcoma , FOXO1A; forkhead box protein O1; FKHL1; forkhead box protein O1A; forkhead, Drosophila, homolog of, in rhabdomyosarcoma; FKHR; FOXO1A;
<b>GeneID</b>	<a href="#">2308</a>
<b>mRNA Refseq</b>	<a href="#">NM_002015</a>
<b>Protein Refseq</b>	<a href="#">NP_002006</a>
<b>MIM</b>	<a href="#">136533</a>
<b>UniProt ID</b>	Q12778
<b>Chromosome Location</b>	13q14.1

<b>Pathway</b>	AKT phosphorylates targets in the nucleus, organism-specific biosystem; AKT-mediated inactivation of FOXO1A, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem;
<b>Function</b>	DNA binding, bending; double-stranded DNA binding; protein binding; protein kinase binding; sequence-specific DNA binding; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription factor binding;