

Rabbit Anti-FOXO1 Polyclonal Antibody

CPB-677RH Rabbit(FOXO1)

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Rabbit Anti-FOXO1 Polyclonal Antibody
Antigen Description	FOXO1 belongs to the forkhead family of transcription factors that are characterized by a distinct fork head domain. The specific function of this gene has not yet been determined; however, it may play a role in myogenic growth and differentiation.
specificity	The antibody detects endogenous level of FKHR only when phosphorylated at serine 256.
Target	FOXO1
Immunogen	Peptide sequence around phosphorylation site of serine 256 (A-A-S(p)-M-D) derived from Human FKHR.
Host	Rabbit
Species	Human
Cross Reactivity	Human; Mouse; Rat
conjugation	N/A
Applications	IFA, WB, IHC

PACKAGING

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

ANTIGEN GENE INFORMATION

Gene Name	FOXO1 forkhead box O1 [Homo sapiens]
Official Symbol	FOXO1
Synonyms	FOXO1; forkhead box O1; FKHR, forkhead homolog in rhabdomyosarcoma , FOXO1A; forkhead box protein O1; FKH1; forkhead box protein O1A; forkhead, Drosophila, homolog of, in rhabdomyosarcoma; FKHR; FOXO1A;
GeneID	2308
mRNA Refseq	NM_002015
Protein Refseq	NP_002006
MIM	136533
UniProt ID	Q12778
Chromosome Location	13q14.1

Pathway	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;
Function	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;