

FoxO4 (Acetyl Lys407) Rabbit Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP02726
Host	Rabbit
Isotype	IgG
Size	100ul, 50ul, 20ul
Immunogen	Synthesized peptide derived from human FoxO4 (Acetyl Lys407)
Mol wt	55550
Species reactivity	Human, Mouse
Clonality	Polyclonal
Recommended application	WB, ELISA
Concentration	1 mg/ml
Full name	FoxO4
Synonyms	FoxO4 ;Acetyl Lys407; Forkhead box protein O4; Fork head domain transcription factor AFX1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

disease:A chromosomal aberration involving FOXO4 is found in acute leukemias. Translocation t(X;11)(q13;q23) with MLL/HRX. The result is a rogue activator protein.|Transcription factor involved in the regulation of the insulin signaling pathway. Binds to insulin-response elements (IREs) and can activate transcription of IGFBP1. Down-regulates expression of HIF1A and suppresses hypoxia-induced transcriptional activation of HIF1A-modulated genes. Also involved in negative regulation of the cell cycle.|pharmaceutical:A constitutively active FOXO4 mutant where phosphorylation sites Thr-32| Ser-187 and Ser-262 have been mutated to alanine may have therapeutic potential in ERBB2/HER2-overexpressing cancers as it inhibits ERBB2-mediated cell survival| transformation and tumorigenicity.|PTM:Acetylation by CBP| which is induced by peroxidase stress| inhibits transcriptional activity. Deacetylation by SIRT1 is NAD-dependent and stimulates transcriptional activity.|PTM:Phosphorylation by PKB/AKT1 inhibits transcriptional activity and is responsible for cytoplasmic localization.|Contains 1 fork-head DNA-binding domain.|subcellular location:When phosphorylated| translocated from nucleus to cytoplasm. Dephosphorylation triggers nuclear translocation.|subunit:Interacts with CBP| MYOCD| SIRT1| SRF and YWHAZ. Acetylated by CBP and deacetylated by SIRT1. Binding of YWHAZ inhibits DNA-binding.|tissue specificity:Heart| brain| placenta| lung| liver| skeletal muscle| kidney and pancreas. Isoform zeta is most abundant in the liver| kidney| and pancreas.|

Recommended Dilution

WB: 1: 1000 - 1: 2000

ELISA: 1: 5000 - 1: 20000

Not yet tested in other applications.

Images

No images.

Storage

-20°C for 1 year