FoxO4 (Phospho Ser197) Rabbit pAb

CatalogNo: YP0116 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- WB,IHC,IF,ELISA

MW
- 70kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:20000
IF 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human AFX around the phosphorylation site of Ser197. AA range:164-213

Specificity	Phospho-FoxO4 (S197) Polyclonal Antibody detects endogenous levels of FoxO4 protein only when phosphorylated at S197.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):AAsMD

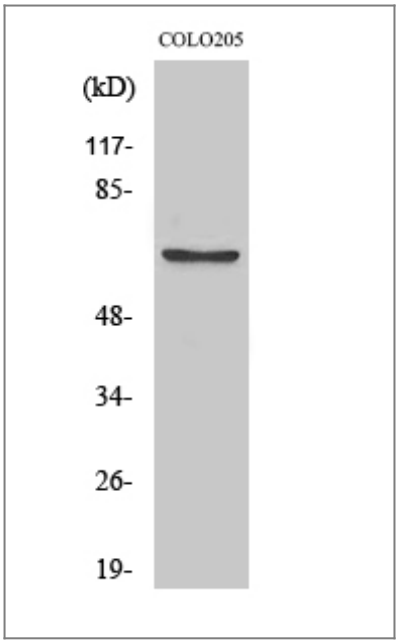
Target Information

Gene name	FOXO4 AFX AFX1 MLLT7
Protein Name	Forkhead box protein O4

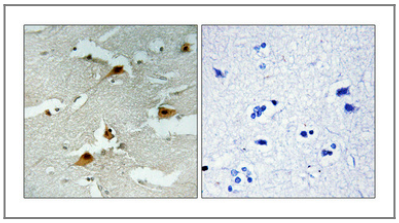
Organism	Gene ID	UniProt ID
Human	4303;	P98177;
Mouse	54601;	Q9WVH3;

Cellular Localization	Cytoplasm. Nucleus. When phosphorylated , translocated from nucleus to cytoplasm. Dephosphorylation triggers nuclear translocation. Monoubiquitination increases nuclear localization. When deubiquitinated , translocated from nucleus to cytoplasm.
Tissue specificity	Heart , brain , placenta , lung , liver , skeletal muscle , kidney and pancreas. Isoform zeta is most abundant in the liver , kidney , and pancreas.
Function	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. ,Function: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. ,similarity: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. ,

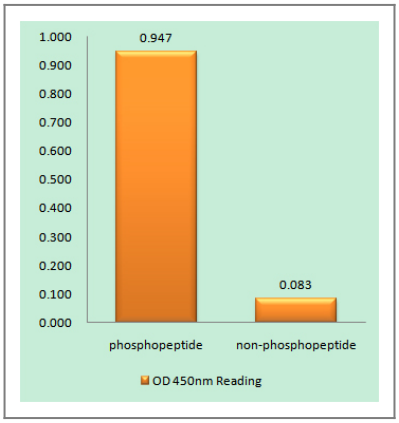
Validation Data



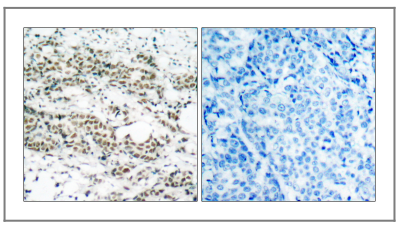
Western Blot analysis of various cells using Phospho-FoxO4 (S197) Polyclonal Antibody



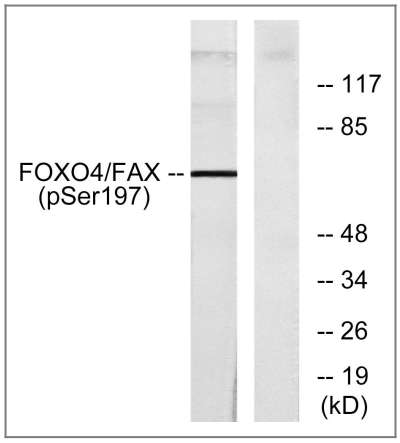
Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4℃ overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using AFX (Phospho-Ser197) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using AFX (Phospho-Ser197) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with serum, using AFX (Phospho-Ser197) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
FoxO4 (Phospho Ser197) Rabbit pAb

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