

Anti-Phospho-FKHR (Ser256) Polyclonal Antibody

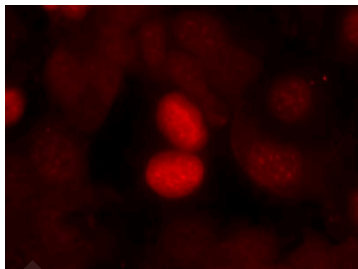
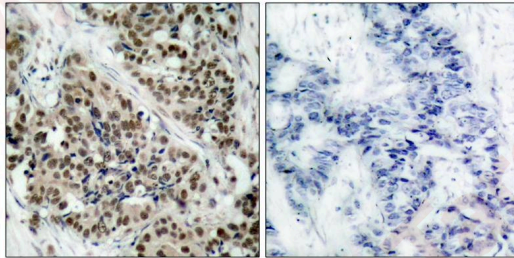
Product Details

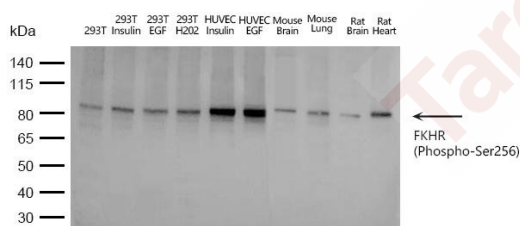
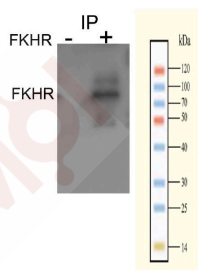
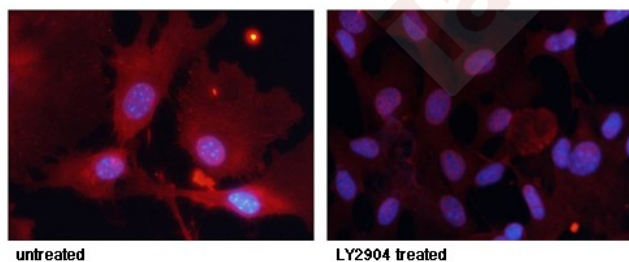
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat,Drosophila
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 82 kDa.
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.

Applications

Verified Activity:

1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using FKHR (Phospho-Ser256) Antibody TMAC-01493 (left) or the same antibody preincubated with blocking peptide (right).
2. Immunofluorescence staining of methanol-fixed MCF7 cells using FKHR(Phospho-Ser256) Antibody TMAC-01493.
3. Immunofluorescence staining of methanol-fixed MEF cells untreated or treated with LY2904 using FKHR (Phospho-Ser256) Antibody TMAC-01493.
4. Immunoprecipitation analysis of extracts of 293T cells incubated with FKHR (Phospho-Ser256) Antibody.
5. Western blot analysis of FKHR (Phospho-Ser256) expression in 293T, 293T Insulin, 293T EGF, 293T H202, HUVEC Insulin, HUVEC EGF, Mouse Brain, Mouse Lung, Rat Brain, Rat Heart.





Application: ELISA,IF,IHC,WB

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Peptide sequence around phosphorylation site of serine 256 (A-A-S(p)-M-D) derived from Human FKHR

Antigen Species: human

Uniprot ID: Q12778

Synonyms: p-FKHR (S256);p-FKHR (Ser256);FKHR (p-S256);FKHR (p-Ser256)

Research Background

Transcription factor that is the main target of insulin signaling and regulates metabolic homeostasis in response to oxidative stress. Binds to the insulin response element (IRE) with consensus sequence 5'-TT[G/A]TTTTG-3' and the related Daf-16 family binding element (DBE) with consensus sequence 5'-TT[G/A]TTTAC-3'. Activity suppressed by insulin. Main regulator of redox balance and osteoblast numbers and controls bone mass. Orchestrates the endocrine function of the skeleton in regulating glucose metabolism. Acts synergistically with ATF4 to suppress osteocalcin/BGLAP activity, increasing glucose levels and triggering glucose intolerance and insulin insensitivity. Also suppresses the transcriptional activity of RUNX2, an upstream activator of osteocalcin/BGLAP. In hepatocytes, promotes gluconeogenesis by acting together with PPARGC1A to activate the expression of genes such as IGFBP1, G6PC and PPCK1. Important regulator of cell death acting downstream of CDK1, PKB/AKT1 and SKT4/MST1. Promotes neural cell death. Mediates insulin action on adipose. Regulates the expression of adipogenic genes such as PPARG during preadipocyte differentiation and, adipocyte size and adipose tissue-specific gene expression in response to excessive calorie intake. Regulates the transcriptional activity of GADD45A and repair of nitric oxide-damaged DNA

in beta-cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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