FKHR(Phospho-Ser256) Antibody

Catalog No: #11115

Package Size: #11115-1 50ul #11115-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Description	
Product Name	FKHR(Phospho-Ser256) Antibody
Host Species	Rabbit
Clonality	Polyclonal
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 chromatogramphy using non-phosphopeptide.
Applications	WB,IHC,IF,ELISAB
Species Reactivity	Human,Mouse,Rat,Drosophila
Specificity	The antibody detects endogenous level of FKHR only when phosphorylated at serine 256.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 256 (A-A-S(p)-M-D) derived from Human FKHR.
Target Name	FKHR
Modification	Phospho
Other Names	FKHR; FOXO1;
Accession No.	Swiss-Prot: Q12778NCBI Protein: NP_002006.2
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02%
	sodium azide and 50% glycerol.

Application Details Predicted MW: 78-82 kd Western blotting: 1:500~1:1000 Immunohistochemistry: 1:50~1:100 Immunofluorescence: 1:100~1:200

Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Images

Storage



Western blot analysis of extracts from 293 cells untreated or treated with serum using FKHR(Phospho-Ser256) Antibody #11115.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using FKHR (Phospho-Ser256) Antibody #11115 (left) or the same antibody preincubated with blocking peptide #51115 (right).



Immunofluorescence staining of methanol-fixed MCF7 cells using FKHR(Phospho-Ser256) Antibody #11115.



Immunofluorescence staining of methanol-fixed MEF cells untreated or treated with LY2904 using FKHR (Phospho-Ser256) Antibody #11115.



LY2904 treated



Immunoprecipitation analysis of extracts of 293T cells incubated with FKHR (Phospho-Ser256) Antibody

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 syngernistically 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. Guo S., Rena G., Cichy S., He X., Cohen P., Unterman T.J. Biol. Chem. 274:17184-17192(1999) Zhang X., Gan L., Pan H., Guo S., He X., Olson S.T., Mesecar A., Adam S., Unterman T.G.J. Biol. Chem. 277:45276-45284(2002) Daitoku H., Hatta M., Matsuzaki H., Aratani S., Ohshima T., Miyagishi M., Nakajima T., Fukamizu A.Proc. Natl. Acad. Sci. U.S.A.

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.