

FKHR(Phospho-Ser319) Antibody

Catalog No: #11136

Package Size: #11136-1 50ul #11136-2 100ul

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

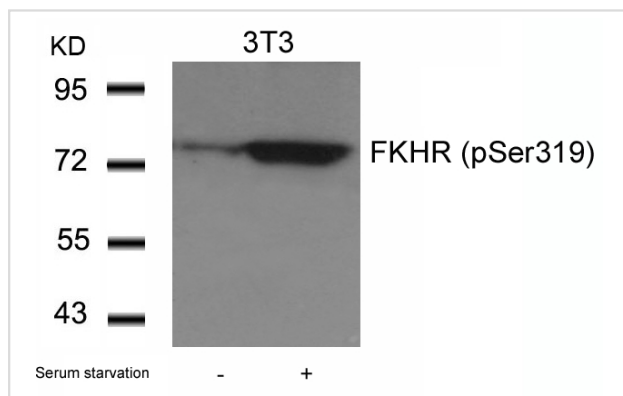
Description

Product Name	FKHR(Phospho-Ser319) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of FKHR only when phosphorylated at serine 319.
Immunogen Type	Peptide
Immunogen Description	The antiserum was produced against synthesized peptide derived from human FKHR around the phosphorylation site of Ser319.
Conjugates	Unconjugated
Target Name	FKHR
Modification	Phospho
Other Names	FOXO1
Accession No.	Swiss-Prot: Q12778NCBI Protein: NP_002006.2
Calculated MW	82 kDa
Concentration	1.0mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

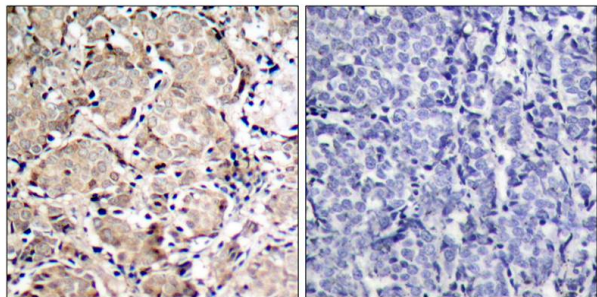
Application Details

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

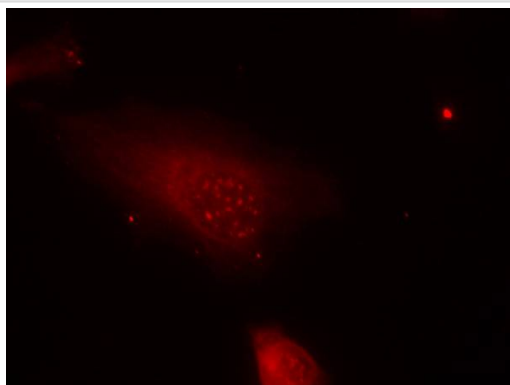
Images



Western blot analysis of extracts from 3T3 cells untreated or treated with serum starvation using FKHR(Phospho-Ser319) Antibody #11136.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using FKHR(Phospho-Ser319) Antibody #11136(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using FKHR(Phospho-Ser319) Antibody #11136.

Background

FKHR belongs to the forkhead family of transcription factors, which are characterized by a distinct forkhead domain. It may play a role in myogenic growth and differentiation. The mammalian DAF-16-like transcription factors, FKHR, FKHL1, and AFX, function as key regulators of insulin signaling, cell cycle progression, and apoptosis downstream of phosphoinositide 3-kinase. Gene activation through binding to insulin response sequences has been essential for mediating these functions. D-type Cyclins (in Class III) is required for FKHR mediated inhibition of cell cycle progression and transformation. FKHR gene is mapped to chromosome 13q14

Rena G, et al. (2002) EMBO J 21(9): 2263-2271.

Woods YL, et al. (2001) Biochem J 355(Pt 3): 597-607.

Rena G, et al. (2001) Biochem J 354(Pt 3): 605-612.

Published Papers

et al., Activation of FoxO by LRRK2 induces expression of proapoptotic proteins and alters survival of postmitotic dopaminergic neuron in Drosophila. In Hum Mol Genet on 2010 Oct 1 by Tomoko Kanao, Katerina Venderova, et al..PMID:20624856, , (2010)

[PMID:20624856](#)

et al., The nitric oxide-cyclic GMP pathway regulates FoxO and alters dopaminergic neuron survival in Drosophila. In PLoS One on 2012 by Tomoko Kanao, Tomoyo Sawada, et al..PMID:22393355, , (2012)

[PMID:22393355](#)

et al., Translocation of forkhead box O1 to the nuclear periphery induces histone modifications that regulate transcriptional repression of PCK1 in HepG2 cells. In Genes Cells on 2015 Apr by Tamaki Arai, Fumi Kano et al..PMID: 25736587, , (2015)

[PMID:25736587](#)

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