

## FKHR(Phospho-Ser319) Antibody

Catalog No: #11136



Package Size: #11136-1 50ul #11136-2 100ul #11136-4 25ul

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## Description

Product Name	FKHR(Phospho-Ser319) 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 chromatography using non-phosphopeptide.
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-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 319 (T-S-S(p)-N-A) derived from Human FKHR/FOXO1A.
Target Name	FKHR
Modification	Phospho-Ser319
Other Names	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 Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

## Application Details

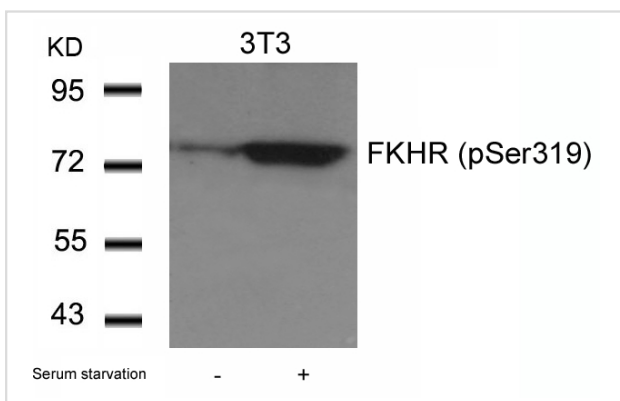
Predicted MW: 78-82 kd

Western blotting: 1:500~1:1000

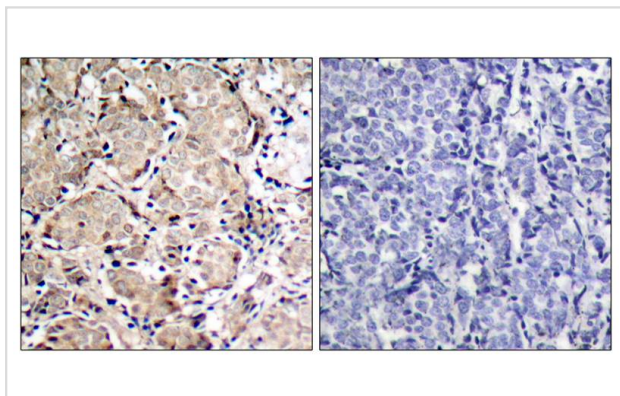
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

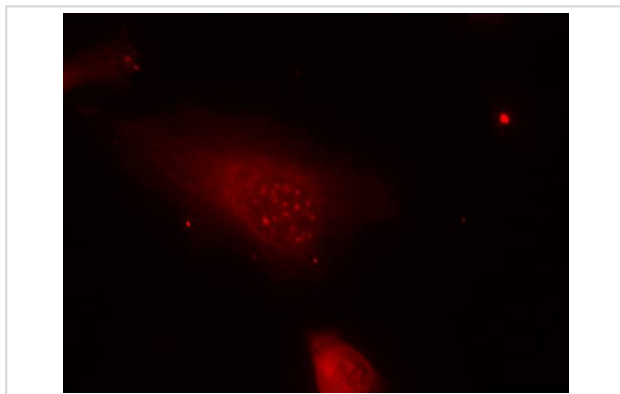
## Images



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 J355(Pt 3): 597-607.

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

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