

## FKHR(Ab-256) Antibody

Catalog No: #21138

Package Size: #21138-1 50ul #21138-2 100ul #21138-4 25ul

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## Description

Product Name	FKHR(Ab-256) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IHC IF
Species Reactivity	Human Mouse Rat
Specificity	The antibody detects endogenous level of total FKHR protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.254~258 (A-A-S-M-D) derived from Human FKHR/FOXO1A.
Target Name	FKHR
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

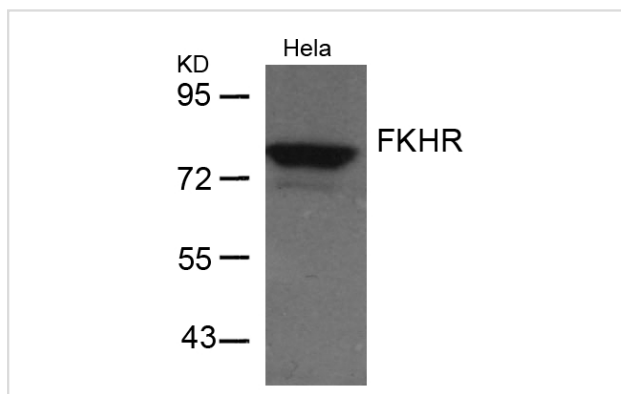
Predicted MW: 78-82 kd

Western blotting: 1:500~1:1000

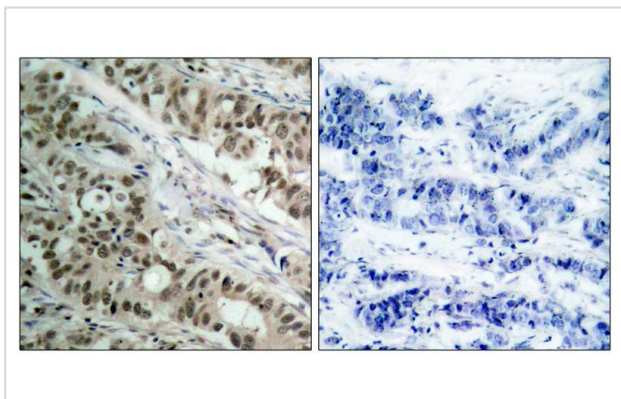
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

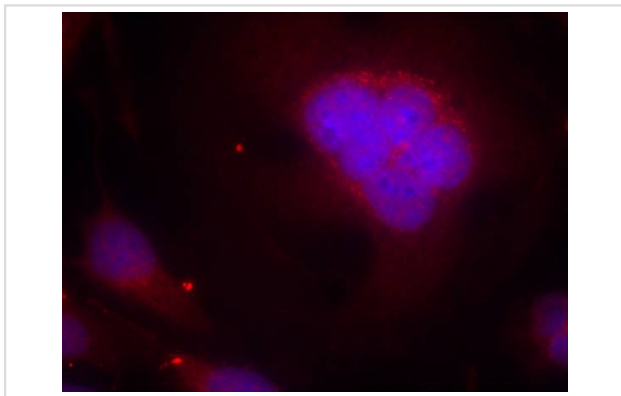
## Images



Western blot analysis of extracts from HeLa cells using FKHR(Ab-256) Antibody #21138.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using FKHR(Ab-256) Antibody #21138(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using FKHR(Ab-256) Antibody #21138.

## 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

Gan L, et al. (2005) *J Neurochem*; 93(5): 1209-19.

Smith WW, et al. (2005) *J Cell Biol*; 169(2): 331-9.

Di Maira G, et al. (2005) *Cell Death Differ*; 12(6): 668-77.

Horn S, et al. (2004) *Leukemia*; 18(11): 1839-49.

Zhao X, et al. (2004) *Biochem J* 4; 378(Pt 3): 839-49.

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