

## anti- FOXO3A antibody

### Product Information

Catalog No.:	FNab10245
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

### Background

Forkhead box O-class (FOXO) transcription factors are mammalian homologue of DAF-16, a known lifespan regulator of *Caenorhabditis elegans*. FOXO transcription factors, such as FOXO1, FOXO3a, and FOXO4, have been linked to the regulation of cell cycle, apoptosis, DNA repair, oxidative stress, and metabolism. FOXO proteins are proposed to be dual regulated by Akt-mediated phosphorylation and Skp2-mediated ubiquitination, which are usually initiated by growth factors and cytokines. FOXO proteins are also activated by stress, which induces gene expression that contributes to cell cycle arrest, implicating FOXO proteins as tumor suppressors. Specifically, FOXO3a (FKHR-L1) is a transcriptional activator for apoptosis in the absence of survival factors, such as in neural cell death triggered by oxidative stress. In the presence of survival factors like IGF-1, AKT1/PKB phosphorylates on Thr-32 and Ser-253. FOXO3a is inactivated when phosphorylated by AKT1 on Thr-32 and Ser-253.

### Immunogen information

Immunogen:	forkhead box O3
Synonyms:	AF6q21, AF6q21 protein, DKFZp781A0677, FKHRL1, FKHRL1P2, forkhead box O3, Forkhead box protein O3, FOXO2, FOXO3, FOXO3A
Observed MW:	90 kDa
Uniprot ID :	O43524

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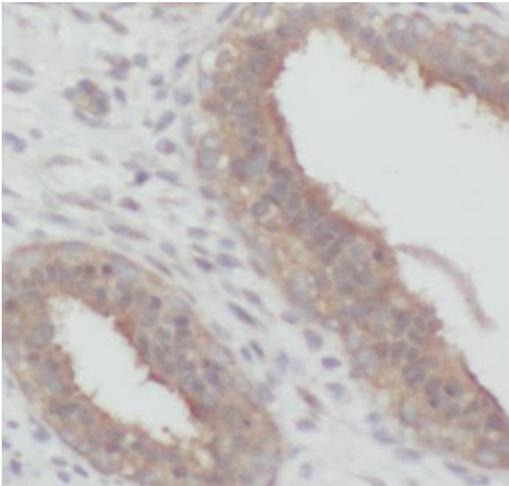
## Application

Reactivity: Human, Mouse, Rat

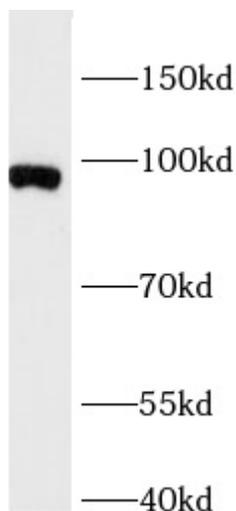
Tested Application: ELISA, WB, IHC

Recommended dilution: WB: 1:500 - 1:2000; IHC: 1:50 - 1:200

Image:



Immunohistochemistry of paraffin-embedded human breast cancer using FNab10245(FOXO3A antibody) at dilution of 1:50



HEK-293 cells were subjected to SDS PAGE followed by western blot with FNab10245(FOXO3A antibody) at dilution of 1:1000

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