

Datasheet for ABIN684688

anti-FOXO3 antibody (pSer318, pSer321)

5 Images

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Overview

Quantity:	100 µL
Target:	FOXO3
Binding Specificity:	pSer318, pSer321
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FOXO3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human FoxO3a around the phosphorylation site of Ser318/321
Isotype:	IgG
Specificity:	These phosphorylation sites are homologous to Ser317 + Ser320 in Mouse and Rat. Due to the highly conserved nature of this sequence, there is a chance that this antibody will react with FoxO1a when phosphorylated at the the sites of Ser322 and Ser325 in Human, Ser319 and Ser322 in Mouse, and Ser316 and Ser319 in Rat.
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse,Dog,Cow,Sheep,Pig,Horse,Chicken

Product Details

Purification: Purified by Protein A.

Target Details

Target: FOXO3

Alternative Name: FoxO3a + ([FOXO3 Products](#))

Background: Synonyms: FOXO2, AF6q21, FKHRL1, FOXO3A, FKHRL1P2, Forkhead box protein O3, AF6q21 protein, Forkhead in rhabdomyosarcoma-like 1, FOXO3
Background: Transcriptional activator which triggers apoptosis in the absence of survival factors, including neuronal cell death upon oxidative stress. Recognizes and binds to the DNA sequence 5'-[AG]TAAA[TC]A-3'. Participates in post-transcriptional regulation of MYC: following phosphorylation by MAPKAPK5, promotes induction of miR-34b and miR-34C expression, 2 post-transcriptional regulators of MYC that bind to the 3'UTR of MYC transcript and prevent its translation.

Gene ID: 2309

UniProt: [O43524](#)

Pathways: [Cell Division Cycle](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Carbohydrate Homeostasis](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

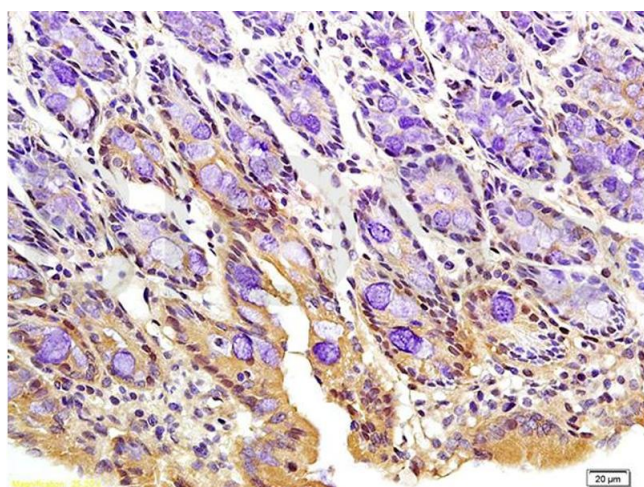
Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Handling

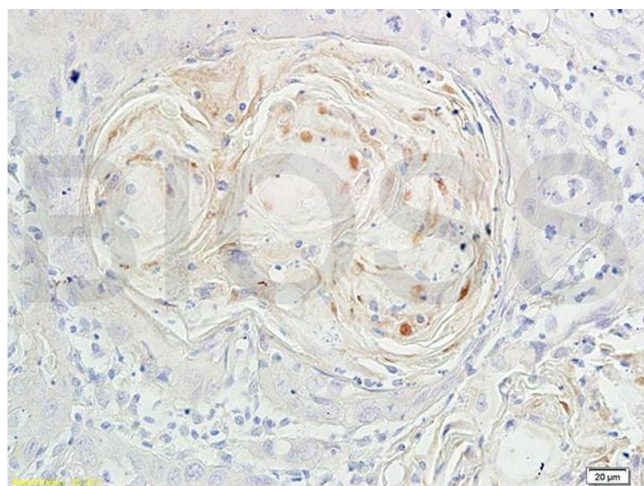
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



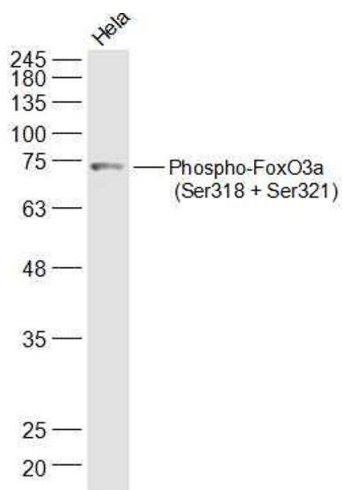
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat colon tissue labeled with Anti-Phospho-FoxO3a (Ser318/321) Polyclonal Antibody, Unconjugated (ABIN684688) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human oral squamous cell carcinoma labeled with Anti-Phospho-FoxO3a (Ser318/321) Polyclonal Antibody, Unconjugated (ABIN684688) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Western Blotting

Image 3. HeLa lysates probed with Phospho-FoxO3a (Ser318 + Ser321) Polyclonal Antibody, Unconjugated at 1:500 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN684688.