

Datasheet for ABIN6255131
anti-FOXO3 antibody (pSer253)

12 Images

1 Publication

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Overview

Quantity:	100 µL
Target:	FOXO3
Binding Specificity:	pSer253
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FOXO3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human FOXO3A around the phosphorylation site of Ser253.
Isotype:	IgG
Specificity:	Phospho-FOXO3A (Ser253) Antibody detects endogenous levels of FOXO3A only when phosphorylated at Serine 253.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target:	FOXO3
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Target Details

Alternative Name:	FOXO3 (FOXO3 Products)
Background:	<p>Description: Transcriptional activator which triggers apoptosis in the absence of survival factors, including neuronal cell death upon oxidative stress (PubMed:10102273, PubMed:16751106). Recognizes and binds to the DNA sequence 5'-[AG]TAAA[TC]A-3' (PubMed:21329882). 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 (PubMed:21329882). In response to metabolic stress, translocates into the mitochondria where it promotes mtDNA transcription (PubMed:23283301).</p> <p>Gene: FOXO3</p>
Molecular Weight:	97kDa
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 1:500-1:2000, IHC 1:50-1:1000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

Handling

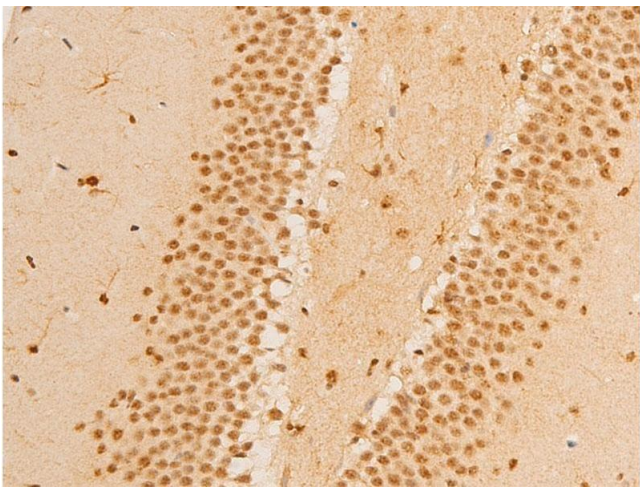
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.

Expiry Date: 12 months

Publications

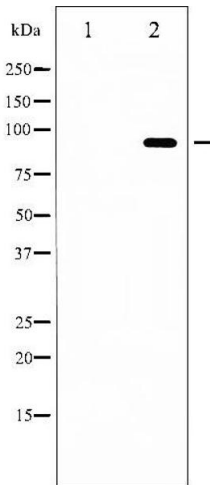
Product cited in: Yang, Lv, Chen, Wang, Liu, Shi, Liu, Wang: "The effect of vitamin D on sarcopenia depends on the level of physical activity in older adults." in: **Journal of cachexia, sarcopenia and muscle**, Vol. 11, Issue 3, pp. 678-689, (2021) ([PubMed](#)).

Images



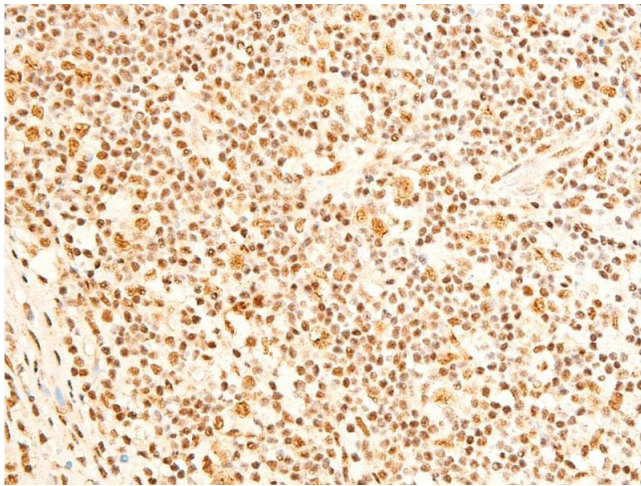
Immunohistochemistry

Image 1. ABIN6267237 at 1/100 staining mouse brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western Blotting

Image 2. Western blot analysis of FKHL1 phosphorylation expression in serum treated NIH-3T3 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



Immunohistochemistry

Image 3. ABIN6267237 at 1/100 staining human appendiceal tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the [product details page](#) for more images. Overall 12 images are available for ABIN6255131.