

Datasheet for ABIN3042404  
**anti-FOXO3 antibody (AA 471-673)**



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4 Images

## Overview

Quantity:	100 µg
Target:	FOXO3
Binding Specificity:	AA 471-673
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FOXO3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Forkhead box protein O3(FOXO3) detection. Tested with WB, IHC-P in Human,Rat.
Immunogen:	E.coli-derived human FOXO3A recombinant protein (Position: Q471-G673). Human FOXO3A shares 97% amino acid (aa) sequence identity with mouse FOXO3A.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Forkhead box protein O3(FOXO3) detection. Tested with WB, IHC-P in Human,Rat. Gene Name: forkhead box O3 Protein Name: Forkhead box protein O3
Purification:	Immunogen affinity purified.

## Target Details

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Target: FOXO3

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

Background: Forkhead box O3, also known as FKHRL1 or FOXO3a, is a human protein encoded by the FOXO3 gene. FOXO3 belongs to the O subclass of the forkhead family of transcription factors which are characterized by a distinct fork head DNA-binding domain. It is mapped to 6q21. This protein likely functions as a trigger for apoptosis through upregulation of genes necessary for cell death, such as Bim and PUMA, or downregulation of anti-apoptotic proteins such as FLIP. In mammals FOXO3 regulates the resistance of cells to stress by inducing DNA repair and thereby may also affect organismal life span. In addition, it is thought that FOXO3 is also involved in protection from oxidative stress by upregulating antioxidants such as catalase and MnSOD.

Synonyms: AF6q21 antibody|AF6q21 protein antibody|DKFZp781A0677 antibody|FKHR2 antibody|FKHRL 1 antibody|FKHRL1 antibody|FKHRL1P2 antibody|Forkhead (Drosophila) homolog (rhabdomyosarcoma) like 1 antibody|Forkhead box O3 antibody|Forkhead box O3A antibody|Forkhead box protein O3 antibody|Forkhead box protein O3A antibody|Forkhead Drosophila homolog of in rhabdomyosarcoma like 1 antibody|Forkhead homolog (rhabdomyosarcoma) like 1 antibody|Forkhead in rhabdomyosarcoma like 1 antibody|Forkhead in rhabdomyosarcoma-like 1 antibody|FOX O3A antibody|FOXO2 antibody|foxo3 antibody|FOXO3\_HUMAN antibody|FOXO3A antibody|MGC12739 antibody|MGC31925 antibody

Gene ID: 2309

UniProt: [O43524](#)

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

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

## Application Details

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ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

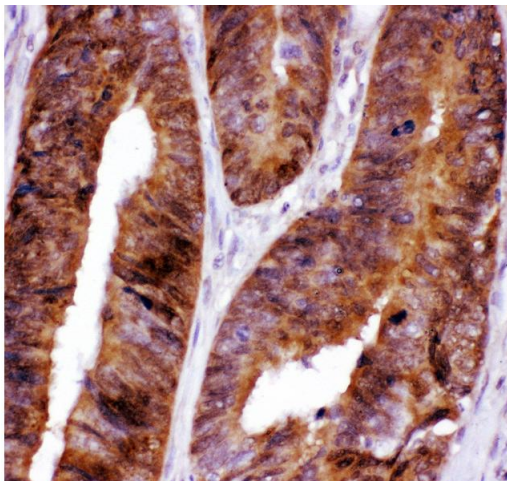
Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Images

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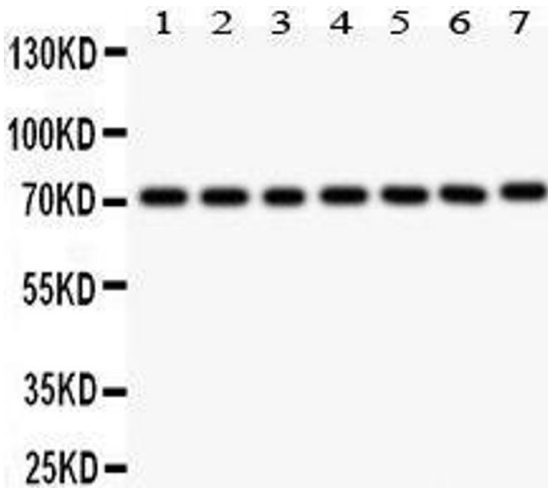
### Immunohistochemistry

**Image 1.** Anti- FOXO3A antibody,IHC(P) IHC(P): Human Intestinal Cancer Tissue



#### Western Blotting

**Image 2.** Anti- FOXO3A antibody, Western blotting All lanes: Anti FOXO3A at 0.5ug/ml WB: Recombinant Human FOXO3A Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD



#### Western Blotting

**Image 3.** Anti- FOXO3A antibody, Western blotting All lanes: Anti FOXO3A at 0.5ug/ml Lane 1: Rat Thymus Tissue Lysate at 50ug Lane 2: NRK Whole Cell Lysate at 40ug Lane 3: PC-12Whole Cell Lysate at 40ug Lane 4: HEPG2 Whole Cell Lysate at 40ug Lane 5: HELA Whole Cell Lysate at 40ug Lane 6: K562 Whole Cell Lysate at 40ug Lane 7: JURKAT Whole Cell Lysate at 40ug Predicted bind size: 71KD Observed bind size: 71KD

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3042404.