

Datasheet for ABIN3042403
anti-FOXO1 antibody (AA 456-655)



[Go to Product page](#)

2 Images

1 Publication

Overview

Quantity:	100 µg
Target:	FOXO1
Binding Specificity:	AA 456-655
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FOXO1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Forkhead box protein O1(FOXO1) detection. Tested with WB in Human,Rat.
Immunogen:	E.coli-derived human FOXO1A recombinant protein (Position: N456-G655). Human FOXO1A shares 93% amino acid (aa) sequence identity with both mouse and rat FOXO1A.
Isotype:	IgG
Cross-Reactivity (Details):	<p>Predicted Cross Reactivity: human</p> <p>No cross reactivity with other proteins.</p> <p>Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.</p>
Characteristics:	Rabbit IgG polyclonal antibody for Forkhead box protein O1(FOXO1) detection. Tested with WB in Human,Rat.

Product Details

	Gene Name: forkhead box O1
	Protein Name: Forkhead box protein O1
Purification:	Immunogen affinity purified.

Target Details

Target:	FOXO1
Alternative Name:	FOXO1 (FOXO1 Products)
Background:	<p>Forkhead box protein O1, also known as FKHR or FOXO1A, is a protein that in humans is encoded by the FOXO1 gene. It is mapped to 13q14.11. This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. FOXO1 plays important roles in regulation of gluconeogenesis and glycogenolysis by insulin signaling, and is also central to the decision for a preadipocyte to commit to adipogenesis. This gene is primarily regulated through phosphorylation on multiple residues. Its transcriptional activity is dependent on its phosphorylation state. What's more, FOXO1 may play a role in myogenic growth and differentiation. Translocation of this gene with PAX3 has been associated with alveolar rhabdomyosarcoma.</p> <p>Synonyms: FKH 1 antibody FKH1 antibody FKHR antibody Forkhead (Drosophila) homolog 1 (rhabdomyosarcoma) antibody Forkhead box O1 antibody Forkhead box protein O1 antibody Forkhead box protein O1A antibody Forkhead in rhabdomyosarcoma antibody Forkhead, Drosophila, homolog of, in rhabdomyosarcoma antibody FoxO transcription factor antibody foxo1 antibody FOXO1_HUMAN antibody FOXO1A antibody OTTHUMP00000018301 antibody</p>
Gene ID:	2308
UniProt:	Q12778
Pathways:	PI3K-Akt Signaling , Cell Division Cycle , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Carbohydrate Homeostasis , Chromatin Binding , Regulation of Carbohydrate Metabolic Process , CXCR4-mediated Signaling Events , BCR Signaling

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat, Predicted Species: Human, The detection limit for FOXO1A is approximately 0.25 ng/lane under reducing conditions.
--------------------	--

Application Details

Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities.

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.

Restrictions: For Research Use only

Handling

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 Na₂HPO₄, 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.

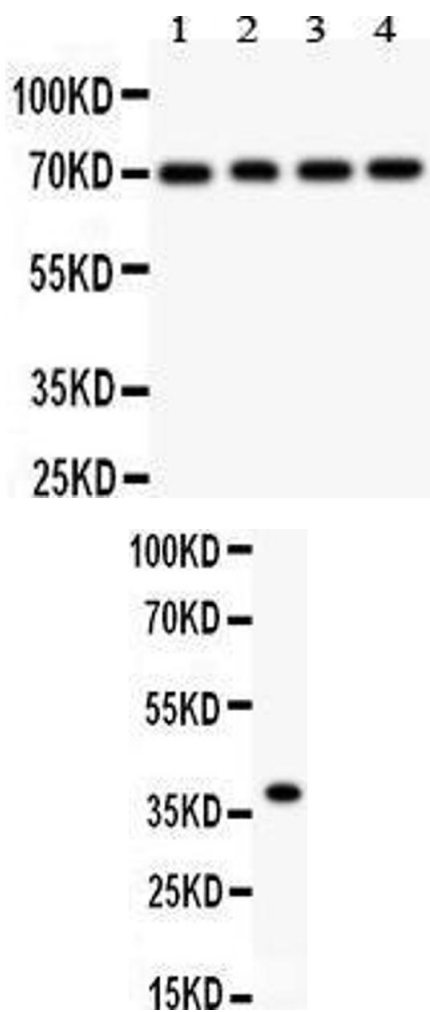
Handling Advice: Avoid repeated freezing and thawing.

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.

Publications

Product cited in: Dong, Mai, Zhang, Mi, Wu, Chu, Yang, Sun: "MiR-15a/b promote adipogenesis in porcine pre-adipocyte via repressing FoxO1." in: **Acta biochimica et biophysica Sinica**, Vol. 46, Issue 7, pp. 565-71, (2014) ([PubMed](#)).



Western Blotting

Image 1. Anti- FOXO1A antibody, Western blotting All lanes: Anti FOXO1A at 0.5ug/ml Lane 1: Rat Lung Tissue Lysate at 50ug Lane 2: Rat Brain Tissue Lysate at 50ug Lane 3: COLO320 Whole Cell Lysate at 40ug Lane 4: HEPG2 Whole Cell Lysate at 40ug Predicted bind size: 70KD Observed bind size: 70KD

Western Blotting

Image 2. Anti- FOXO1A antibody, Western blotting All lanes: Anti FOXO1A at 0.5ug/ml WB: Recombinant Human FOXO1A Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD