


Anti-FOXO3A antibody ab70314

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概述

产品名称	Anti-FOXO3A抗体
描述	兔多克隆抗体to FOXO3A
宿主	Rabbit
经测试应用	适用于: WB, IP, IHC-P
种属反应性	与反应: Mouse, Human 预测可用于: Sheep, Horse, Cow, Dog, Pig, Chimpanzee, Rhesus monkey, Gorilla, Orangutan, Elephant 
免疫原	Synthetic peptide corresponding to a region between residues 250 and 300 of human FOXO3A. (Swiss-Prot O43524)
阳性对照	Whole cell lysate from MCF7 cells
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	<p>pH: 7</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituents: 1.815% Tris, 1.764% Sodium citrate, 0.021% PBS</p>
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用ab70314于以下的经测试应用

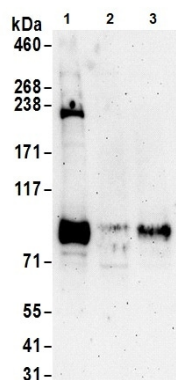
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/5000 - 1/15000. Detects a band of approximately 85 kDa (predicted molecular weight: 71 kDa).
IP		Use at 2-5 µg/mg of lysate.
IHC-P		1/200 - 1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

靶标

功能	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'.
组织特异性	Ubiquitous.
疾病相关	Note=A chromosomal aberration involving FOXO3 is found in secondary acute leukemias. Translocation t(6;11)(q21;q23) with MLL/HRX.
序列相似性	Contains 1 fork-head DNA-binding domain.
翻译后修饰	In the presence of survival factors such as IGF-1, phosphorylated on Thr-32 and Ser-253 by AKT1/PKB. This phosphorylated form then interacts with 14-3-3 proteins and is retained in the cytoplasm. Survival factor withdrawal induces dephosphorylation and promotes translocation to the nucleus where the dephosphorylated protein induces transcription of target genes and triggers apoptosis. Although AKT1/PKB doesn't appear to phosphorylate Ser-315 directly, it may activate other kinases that trigger phosphorylation at this residue. Phosphorylated by STK4 on Ser-209 upon oxidative stress, which leads to dissociation from YWHAB/14-3-3-beta and nuclear translocation. Phosphorylated by PIM1.
细胞定位	Cytoplasm > cytosol. Nucleus. Translocates to the nucleus upon oxidative stress and in the absence of survival factors.

图片



Western blot - Anti-FOXO3A antibody (ab70314)

All lanes : Anti-FOXO3A antibody (ab70314) at 0.4 µg/ml

Lane 1 : 293T cell Lysate

Lane 2 : Jurkat cell Lysate

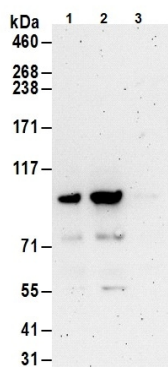
Lane 3 : Mouse TCMK cell Lysate

Lysates/proteins at 50 µg per lane.

Developed using the ECL technique.

Predicted band size: 71 kDa

Exposure time: 3 minutes



Immunoprecipitation - Anti-FOXO3A antibody
(ab70314)

Lane 1 : MCF7 Cell Lysate Immunoprecipitated with ab70314 at 6µg/mg.

Lane 2: MCF7 Cell Lysate Immunoprecipitated with **ab70315** 6µg/mg

Lane 3:MCF7 Cell Lysate Immunoprecipitated with Control IgG at 6µg/mg

Western Blot carried out using ab70314 at 1µg/ml

Detection: ECL for 3 minutes.

All lanes : Anti-FOXO3A antibody (ab70314) at 1 µg/ml

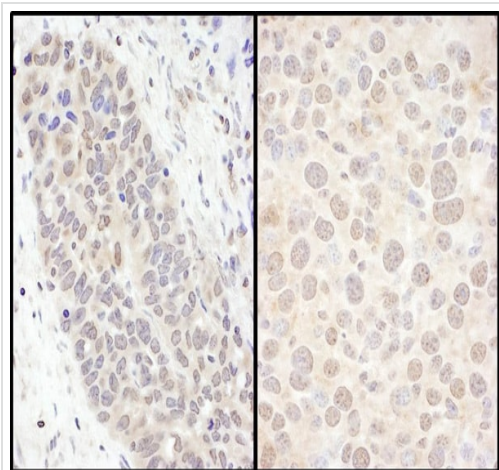
Lane 1 : MCF7 Cell Lysate Immunoprecipitated with ab70314 at 6µg/mg

Lane 2 : MCF7 Cell Lysate Immunoprecipitated with **ab70315** 6µg/mg

Lane 3 : MCF7 Cell Lysate Immunoprecipitated with Control IgG at 6ug/mg

Developed using the ECL technique.

Exposure time: 3 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXO3A antibody (ab70314)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human ovarian carcinoma (left) and mouse renal cell carcinoma (right) tissues labelling FOXO3A with ab70314 at 1/500 (2µg/ml). Detection: DAB.

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