


Anti-FOXO3A antibody [EPR1950] ab109629

KO 評価済 リコンビナント RabMAb

1 Abreviews 26 References 画像数 5

製品の概要

製品名	Anti-FOXO3A antibody [EPR1950]
製品の詳細	Rabbit monoclonal [EPR1950] to FOXO3A
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), WB 適用なし: IHC-P or IP
種交差性	交差種: Human 交差が予測される動物種: Rat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	HEK-293, HEK-293T, MCF7 and SH-SY5Y cell lysates, HeLa cells
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR1950

アプリケーション

The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab109629の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		1/1000 - 1/10000. Detects a band of approximately 90 kDa (predicted molecular weight: 71 kDa).

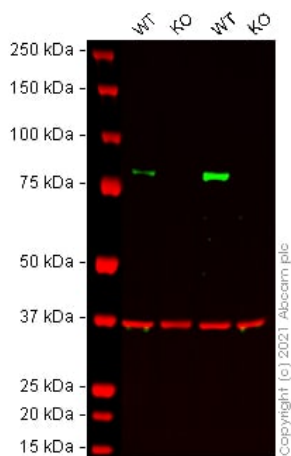
追加情報

Is unsuitable for IHC-P or IP.

ターゲット情報

機能	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'.
組織特異性	Ubiquitous.
関連疾患	Note=A chromosomal aberration involving FOXO3 is found in secondary acute leukemias. Translocation t(6;11)(q21;q23) with MLL/HRX.
配列類似性	Contains 1 fork-head DNA-binding domain.
翻訳後修飾	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.
細胞内局在	Cytoplasm > cytosol. Nucleus. Translocates to the nucleus upon oxidative stress and in the absence of survival factors.

画像



Western blot - Anti-FOXO3A antibody [EPR1950]
(ab109629)

All lanes : Anti-FOXO3A antibody [EPR1950] (ab109629) at 1/1000 dilution

Lane 1 : Wild-type HEK-293T cell lysate

Lane 2 : Human FOXO3 (FOXO3A) knockout HEK-293T cell lysate
([ab256922](#))

Lane 3 : Wild-type HEK-293 cell lysate

Lane 4 : Human FOXO3 (FOXO3A) knockout HEK-293 cell lysate
([ab261649](#))

Lysates/proteins at 20 µg per lane.

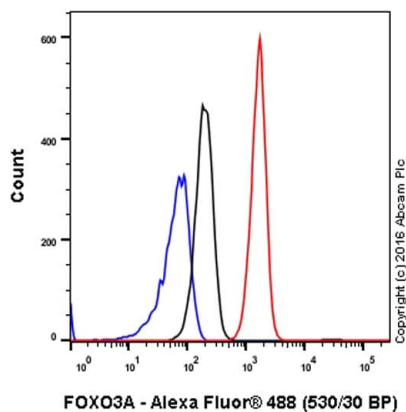
Performed under reducing conditions.

Predicted band size: 71 kDa

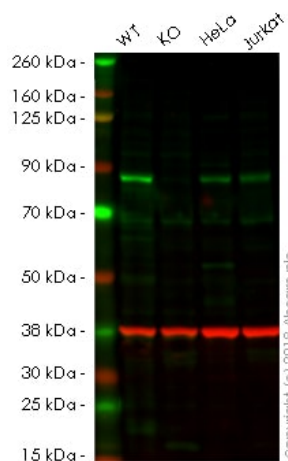
Observed band size: 82 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab109629 observed at 82 kDa. Red - loading control [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

ab109629 was shown to react with FOXO3A in wild-type cells in Western blot with loss of signal observed in FOXO3 knockout cell lines. Wild-type and FOXO3 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab109629 and [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Flow Cytometry (Intracellular) - Anti-FOXO3A antibody [EPR1950] (ab109629)



Western blot - Anti-FOXO3A antibody [EPR1950] (ab109629)

Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling FOXO3A with unpurified ab109629 at 1/150 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.

All lanes : Anti-FOXO3A antibody [EPR1950] (ab109629) at 1/1000 dilution

Lane 1 : Wild-type HEK 293 whole cell lysate

Lane 2 : FOXO3 knockout HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate

Lane 3 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 4 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

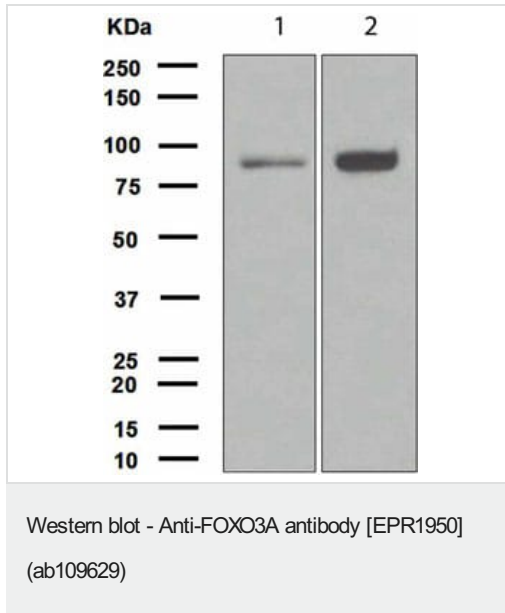
Lysates/proteins at 20 µg per lane.

Predicted band size: 71 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab109629 observed at 71 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab109629 was shown to recognize FOXO3A in wild-type HEK 293 cells as signal was lost at the expected MW in FOXO3 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and FOXO3 knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% Milk. Ab109629 and **ab8245** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and

1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



All lanes : Anti-FOXO3A antibody [EPR1950] (ab109629) at 1/1000 dilution

Lane 1 : MCF7 cell lysate

Lane 2 : SH-SY5Y cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 71 kDa

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-FOXO3A antibody [EPR1950] (ab109629)

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