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Anti-FoxO1a Rabbit Monoclonal Antibody

Catalog Number: M00073

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Overview

Product Name	Anti-FoxO1a Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-FoxO1a Rabbit Monoclonal Antibody catalog # M00073. Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, ICC, WB
Clonality	Monoclonal CIA-6
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q12778

Technical Details

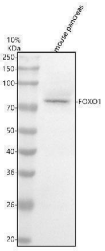
Immunogen	A synthesized peptide derived from human FoxO1a
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000

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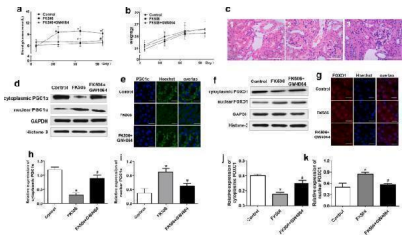
	IHC 1:50-200 ICC/IF 1:50-200

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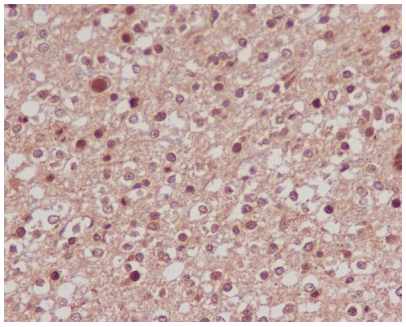
Anti-FoxO1a Rabbit Monoclonal Antibody (M00073) Images



Western blot analysis of FOXO1 using anti-FOXO1 antibody (M00073). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: mouse pancreas tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-FOXO1 antigen affinity purified monoclonal antibody (M00073) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for FOXO1 at approximately 80 kDa. The expected band size for FOXO1 is at 70 kDa.

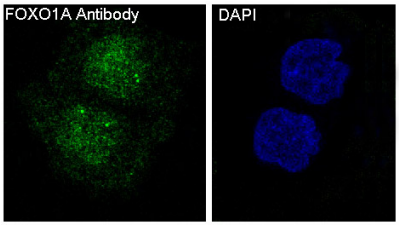


The FXR agonist GW4064 improved fasting blood glucose and inhibited the translocation of PGC1alpha and FOXO1 from the nucleus to the cytoplasm in gluconeogenesis with FK506 treatment in mice for 3 months. a After FK506 was administered at a dose of 1 mg/kg/day to the C57BL/6J mice for 3 months, the fasting blood glucose levels obviously increased gradually compared with those of the control group, and the FXR agonist GW4064 downregulated the blood glucose levels. No significant difference was found for b body weights and c morphological alterations among the control group, the FK506 group and the FK506 + GW4064 group. The C-1, C-2 and C-3 groups were the control group, the FK506 group and the FK506 + GW4064 group, respectively. d , f – h , j , k Western blotting and quantitative analysis show the protein subcellular localization of PGC1alpha and FOXO1. Original magnification, ×3400 in each group. e , i IF staining for PGC1alpha (e) and FOXO1 (i) in sections of 3 groups. DAPI was used to locate the nuclei of the cells. Data are presented as the mean ± SD (n = 7). * P < 0.05 vs. the control group, # P < 0.05 vs. the FK506 group Index in PubMed under a CC BY license. PMID: 31836014



Immunohistochemical analysis of paraffin-embedded human brain carcinoma, using FoxO1a Antibody.

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Immunofluorescent analysis of Hela cells, using FoxO1a Antibody .

2 Publications Citing This Product

1. PubMed ID: 31836014, Li L,Zhao H,Chen B,Fan Z,Li N,Yue J,Ye Q.FXR activation alleviates tacrolimus-induced post-transplant diabetes mellitus by regulating renal gluconeogenesis and glucose uptake.J Transl Med.2019 Dec 13;17(1):418.doi:10.1186/s12967-019-02170-5.PMID:31836014;PMCID:PMC6909577.

2. PubMed ID: 24862853, Dong P, Mai Y, Zhang Z, Mi L, Wu G, Chu G, Yang G, Sun S. Acta Biochim Biophys Sin (Shanghai). 2014 Jul;46(7):565-71. Doi: 10.1093/Abbs/Gmu043. Epub 2014 May 26. Mir-15A/B Promote Adipogenesis In Porcine Pre-Adipocyte Via Repressing Foxo1.

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Anti-FoxO1a Rabbit Monoclonal Antibody

For Research Use Only. Not for use in diagnostic procedures.