Datasheet for ABIN2854683

anti-FOXD1 antibody (C-Term)

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Overview

Quantity:	100 µL
Target:	FOXD1
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FOXD1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human FOXD1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Rabbit polyclonal antibody to forkhead box D1 (forkhead box D1) FOXD1 antibody [C3], C-term
Purification:	Purified by antigen-affinity chromatography.
Grade:	KO Validated

Target Details

Target:	FOXD1
Alternative Name:	forkhead box D1 (FOXD1 Products)
Background:	This intronless gene belongs to the forkhead family of transcription factors which is characterized by a distinct forkhead domain. The specific function of this gene has not yet been determined, however, it may play a role in tumor formation. Cellular Localization: Nucleus
Molecular Weight:	46 kDa
Gene ID:	2297
UniProt:	Q16676

Application Details

Application Notes:	WB: 1:500-1:3000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: 293T nuclear extract Validation: KO/KD, Orthogonal
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	1XPBS (pH 7), 20 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

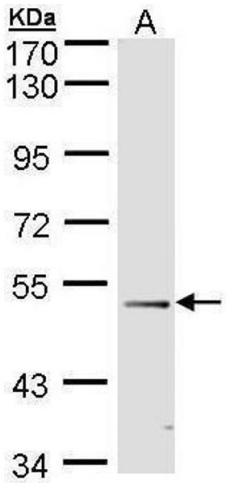
Publications

Product cited in:

Chen, Lin, Chen, Cheng, Cheng, Imai et al.: "Effect of prednisolone on glyoxalase 1 in an inbred mouse model of aristolochic acid nephropathy using a proteomics method with fluorogenic derivatization-liquid chromatography-tandem mass ..." in: **PLoS ONE**, Vol. 15, Issue 1, pp. e0227838, (2020) (PubMed).

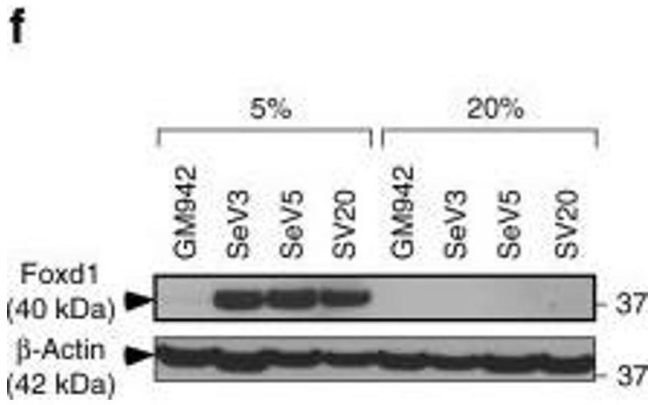
Dawson, Biggar, Storey: "Characterization of fructose-1,6-bisphosphate aldolase during anoxia in the tolerant turtle, Trachemys scripta elegans: an assessment of enzyme activity, expression and structure." in: **PLoS ONE**, Vol. 8, Issue 7, pp. e68830, (2014) (PubMed).

Images



Western Blotting

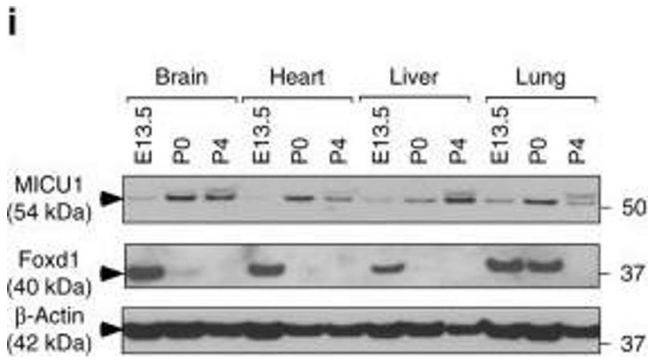
Image 1. WB Image Sample A: 30 ug of 293T nuclear extract 10% SDS PAGE antibody diluted at 1:500



Western Blotting

Image 2. MICU1 is transcriptionally regulated by Foxd1 under hypoxia. a Quantification of MICU1 mRNA abundance in hiPSCs exposed to normoxia (20 % O2) and hypoxia (5 % O2). b Representative western blot for lysates from control fibroblasts and hiPSCs grown under hypoxic/normoxic conditions and probed with antibody specific for MICU1, MCU, ATP5A, and Tom20. c, d Quantification of relative MICU1 (c) and MCU (d) protein abundance in hiPSCs grown under hypoxic/normoxic conditions. e Quantification of Foxd1 mRNA abundance in hiPSCs under normoxia/hypoxia. f Representative western blot for lysates from control fibroblasts and hiPSCs grown under normoxic/ hypoxic conditions and probed with antibody specific for

Foxd1 and β-actin. g Quantification of relative protein abundance of Foxd1 and MICU1 quantified from f and b. h Quantification of Foxd1 mRNA abundance in various tissues (brain, heart, liver, and lung) harvested from different stages of embryonic development. i Representative western blot for lysates from brain, heart, liver, and lung harvested from embryos/neonates and probed with antibodies specific for MICU1, Foxd1, and β-actin. j Quantification of relative protein abundance of Foxd1 and MICU1 quantified from i. k ChIP-assay was performed in hiPSCs exposed to normoxia and hypoxia. Antibody specific for Foxd1 was used to immunoprecipitate the chromatin and the fold enrichment of micu1 promoter relative to the matched input control was quantified by qRT-PCR. Bar represents Mean±SEM, **P<0.01, *P<0.05, ***P<0.001, n=3-5 (One-Way ANOVA) - figure provided by CiteAb. Source: PMID30158529



Western Blotting

Image 3. MICU1 is transcriptionally regulated by Foxd1 under hypoxia. a Quantification of MICU1 mRNA abundance in hiPSCs exposed to normoxia (20 % O2) and hypoxia (5 % O2). b Representative western blot for lysates from control fibroblasts and hiPSCs grown under hypoxic/normoxic conditions and probed with antibody specific for MICU1, MCU, ATP5A, and Tom20. c, d Quantification of relative MICU1 (c) and MCU (d) protein abundance in hiPSCs grown under hypoxic/normoxic conditions. e Quantification of Foxd1 mRNA abundance in hiPSCs under normoxia/hypoxia. f Representative western blot for lysates from control fibroblasts and hiPSCs grown under normoxic/hypoxic conditions and probed with antibody specific for Foxd1 and β-actin. g Quantification of relative protein abundance of Foxd1 and MICU1 quantified from f and b. h Quantification of Foxd1 mRNA abundance in various tissues (brain, heart, liver, and lung) harvested from different stages

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