Datasheet for ABIN6148177

anti-SNAIL antibody (C-Term)

7 Images | 1 Publication

Go to Product page

Overview

Quantity:	100 µL
Target:	SNAIL (SNAI1)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 200 to the C-terminus of human Snail (NP_005976.2).
Sequence:	RTHTGEKPFS CPHCSRAFAD RSNLRAHLQT HSDVKKYQCQ ACARTFSRMS LLHKHQESGC SGCPR
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	SNAIL (SNAI1)
Alternative Name:	SNAI1 (SNAI1 Products)

Target Details

Background:	The Drosophila embryonic protein snail is a zinc finger transcriptional repressor which downregulates the expression of ectodermal genes within the mesoderm. The nuclear protein encoded by this gene is structurally similar to the Drosophila snail protein, and is also thought to be critical for mesoderm formation in the developing embryo. At least two variants of a similar processed pseudogene have been found on chromosome 2.,SNAI1,SLUGH2,SNA,SNAH,SNAIL,SNAIL1,dJ710H13.1,Epigenetics & Nuclear Signaling,Transcription Factors,Cancer,Cardiovascular,Heart,Cardiogenesis,SNAI1
Molecular Weight:	29 kDa
Gene ID:	6615
UniProt:	O95863
Pathways:	Negative Regulation of intrinsic apoptotic Signaling

Application Details

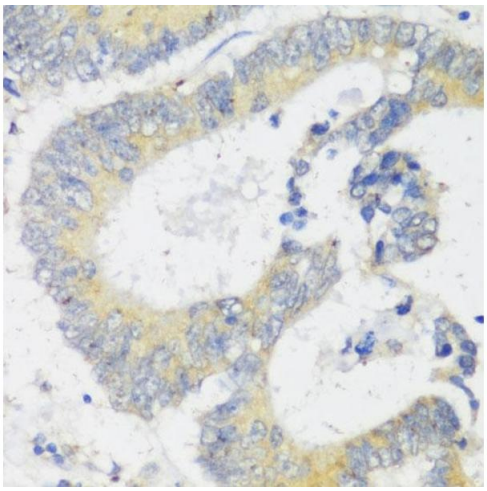
Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:100
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

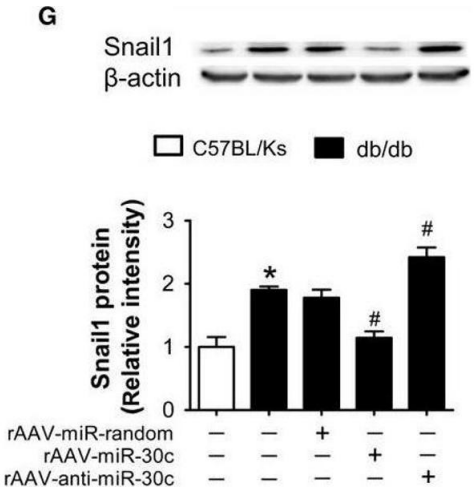
Publications

Product cited in:	Zheng, Guan, Jia, Wang, Pang, Lv, Xiao, Wang, Zhang, Xue: "The coordinated roles of miR-26a and miR-30c in regulating TGFβ1-induced epithelial-to-mesenchymal transition in diabetic nephropathy." in: **Scientific reports**, Vol. 6, pp. 37492, (2018) (PubMed).



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human colon carcinoma using Snail antibody (ABIN6132675, ABIN6148177, ABIN6148180 and ABIN6221190) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2. Snail1 is a target of miR-30c. (A) Sequence alignment between miR-30c and the 3'-UTR of Snail1 among several species. (B) Ago2 protein levels in co-immunoprecipitated products detected by Western blot. IgGHC, IgG heavy chain, IgGLC, IgG light chain. (C) Relative expression of Snail1 in the whole RNA (left) and RNA of the nonspecific IgG or anti-Ago2 co-IP (right) from the HG-treated HK2 cell lysates. #P < 0.05 vs. miR-con + input, *P < 0.05 vs. miR-con + IgG IP. (D) Schematic diagram of the luciferase reporter plasmids of pMIR-Snail1 3'-UTR and pMIR-Snail1 3'-UTR mut, and the potential target site of miR-30c on the 3'-UTR of Snail1. (E) Regulation of miR-30c on 3'-UTR of Snail1 in HEK293 cells by luciferase reporter assay. *P < 0.05 vs. Snail1 3'-UTR + miR-con. (F) Snail1 protein levels of HK2 cells with different treatments detected by Western blot. *P < 0.05 vs. NG, #P < 0.05 vs. HG + miR-con, &P < 0.05 vs. HG + inhibitor-con. (G) Snail1 protein levels of renal cortex detected by Western blot. *P < 0.05 vs. C57BL/Ks. #P < 0.05 vs. db/db control. (H) Stability curves of Snail1 mRNA in HG-treated HK2 cells after transfection of miR-30c mimics (left) or inhibitor (right). (I) The relative abundance of individual mRNA in each fraction was presented as the percentage of the total fraction following miR-con (left) or miR-30c (right) transfection. (J) The

association of the Snail1 mRNA with putative polysome fractions (fraction 12 and fraction 13) after miR-30c mimics transfection. Data are representative of three experiments. Data are expressed as mean ± SEM, n ≥ 3. - figure provided by CiteAb. Source: PMID28127848

Western Blotting

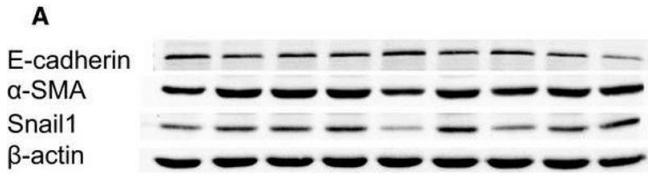


Image 3. Downregulation of Snail1 reduced high glucose-induced EMT and TGF-β1 secretion in cultured HK2 cells. (A) E-cadherin, α-SMA, and Snail1 protein levels of HK2 cells with different treatments detected by Western blot. (B) TGF-β1 level in the culture supernatants measured by ELISA. (C) TGF-β1 mRNA level in HK2 cells with different treatments detected by real-time PCR. Data are representative of three experiments. Data are expressed as mean ± SEM, n = 3, *P < 0.05 vs. NG, #P < 0.05 vs. HG + si-con, &P < 0.05 vs. HG + miR-con, %P < 0.05 vs. HG + inhibitor-con. - figure provided by CiteAb. Source: PMID28127848

Please check the product details page for more images. Overall 7 images are available for ABIN6148177.