

Product datasheet

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ARG41332 anti-SNAIL antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes SNAIL

Tested Reactivity Hu, Ms, Rat

Tested Application ICC/IF, IHC-P, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name SNAIL

Species Human

Immunogen Synthetic peptide within aa. 1-100 of Human SNAIL (NP_005976.2).

Conjugation Un-conjugated

Alternate Names SNAH; SNAIL; SNA; dJ710H13.1; Protein sna; Protein snail homolog 1; Zinc finger protein SNAI1;

SLUGH2; SNAIL1

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	A431	
Observed Size	~ 32 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

Gene Symbol SNAI1

Gene Full Name snail family zinc finger 1

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. [provided by RefSeq, Jul 2008]

Function Involved in induction of the epithelial to mesenchymal transition (EMT), formation and maintenance of

embryonic mesoderm, growth arrest, survival and cell migration. Binds to 3 E-boxes of the E-cadherin/CDH1 gene promoter and to the promoters of CLDN7 and KRT8 and, in association with histone demethylase KDM1A which it recruits to the promoters, causes a decrease in dimethylated H3K4 levels and represses transcription. Associates with EGR1 and SP1 to mediate tetradecanoyl phorbol acetate (TPA)-induced up-regulation of CDKN2B, possibly by binding to the CDKN2B promoter

region 5'-TCACA-3. In addition, may also activate the CDKN2B promoter by itself. [UniProt]

Calculated Mw 29 kDa

PTM Phosphorylated by GSK3B. Once phosphorylated, it becomes a target for BTRC ubiquitination. Phosphorylation by CSNK1E, probably at Ser-104, provides the priming site for the subsequent

induced upon interaction with NOTCH1 or TP53/p53 is mediated by MDM2.

phosphorylation by GSK3B, probably at Ser-100 and Ser-96. Phosphorylation by PAK1 may modulate its transcriptional activity by promoting increased accumulation in the nucleus. Phosphorylation at Ser-11 and Ser-92 positively regulates its functions in induction of EMT and cell survival, respectively. Phosphorylation by LATS2, upon mitotic stress, oncogenic stress or Hippo pathway activation, occurs in

the nucleus and promotes nuclear retention and stabilization of total cellular protein level.

Ubiquitinated on Lys-98, Lys-137 and Lys-146 by FBXL14 and BTRC leading to degradation. BTRC-triggered ubiquitination requires previous GSK3B-mediated SNAI1 phosphorylation. Ubiquitination

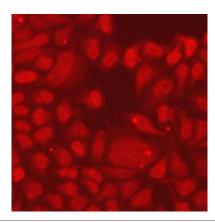
O-GlcNAcylation at Ser-112 is enhanced in hyperglycaemic conditions, it opposes phosphorylation by GSK3B, and stabilizes the protein.

ADP-ribosylation by PARP1 increases protein half-life and may be involved in TGFB-induced SNAI1 up-

regulation. [UniProt]

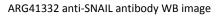
Cellular Localization Cytoplasm, Nucleus. [UniProt]

Images



ARG41332 anti-SNAIL antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG41332 anti-SNAIL antibody at 1:100 dilution.



- 55
- 42
- 36
- 24
- 15

A431

Western blot: 25 μg of A431 cell lysate stained with ARG41332 anti-SNAIL antibody at 1:1000 dilution.