

SNAI1 Antibody (N-term D24)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2054a

Specification

SNAI1 Antibody (N-term D24) - Product Information

Application	WB, IHC-P,E
Primary Accession	O95863
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	9-39

SNAI1 Antibody (N-term D24) - Additional Information

Gene ID 6615

Other Names

Zinc finger protein SNAI1, Protein snail homolog 1, Protein sna, SNAI1, SNAH

Target/Specificity

This SNAI1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 9-39 amino acids from the N-terminal region of human SNAI1.

Dilution

WB~~1:1000
IHC-P~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

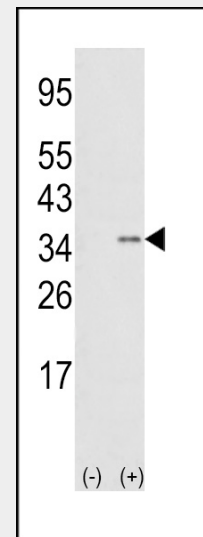
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

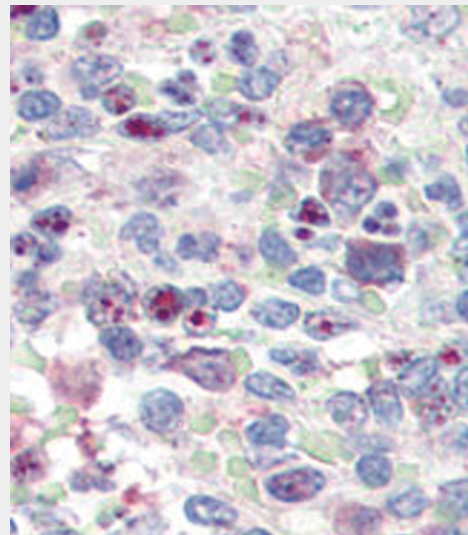
SNAI1 Antibody (N-term D24) is for research use only and not for use in diagnostic or therapeutic procedures.

SNAI1 Antibody (N-term D24) - Protein Information

Name SNAI1



Western blot analysis of SNAI1 (arrow) using rabbit polyclonal hSNAI1-D24 (Cat. #AP2054a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the SNAI1 gene (Lane 2).



Formalin-fixed and paraffin-embedded human Spleen tissue reacted with SNAI1 antibody (N-term D24) (Cat.#AP2054a), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Synonyms SNAH

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. During EMT, involved with LOXL2 in negatively regulating pericentromeric heterochromatin transcription (By similarity). SNAI1 recruits LOXL2 to pericentromeric regions to oxidize histone H3 and repress transcription which leads to release of heterochromatin component CBX5/HP1A, enabling chromatin reorganization and acquisition of mesenchymal traits (By similarity). 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.

Cellular Location

Nucleus. Cytoplasm. Note=Once phosphorylated (probably on Ser-107, Ser-111, Ser-115 and Ser-119) it is exported from the nucleus to the cytoplasm where subsequent phosphorylation of the destruction motif and ubiquitination involving BTRC occurs

Tissue Location

Expressed in a variety of tissues with the highest expression in kidney. Expressed in mesenchymal and epithelial cell lines.

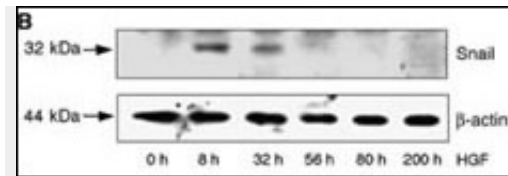
SNAI1 Antibody (N-term D24) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SNAI1 Antibody (N-term D24) - Citations

- [Positive Correlative over-Expression between eIF4E and Snail in Nasopharyngeal Carcinoma Promotes its Metastasis and Resistance to Cisplatin.](#)
- [Reactive oxygen species induce epithelial-mesenchymal transition, glycolytic switch, and mitochondrial repression through the Dlx-2/Snail signaling pathways in MCF-7 cells.](#)
- [Dihydrotestosterone increases the risk of bladder cancer in men.](#)
- [Inhibition of ATM reverses EMT and decreases metastatic potential of cisplatin-resistant lung cancer cells through JAK/STAT3/PD-L1 pathway.](#)
- [FOSB-PCDHB13 Axis Disrupts the Microtubule Network in Non-Small Cell Lung Cancer.](#)
- [Role of estrogen receptors and Src signaling in mechanisms of bone metastasis by estrogen](#)



HepG2 cells were incubated with HGF for the time periods indicated. LiCl and MG132 were added 8 h before lysis of the cells. Snai1 protein levels and beta actin as loading control were analyzed by WB.

SNAI1 Antibody (N-term D24) - 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.

SNAI1 Antibody (N-term D24) - References

Imai, T., et al., Am. J. Pathol. 163(4):1437-1447 (2003). Yokoyama, K., et al., Int. J. Oncol. 22(4):891-898 (2003). Guaita, S., et al., J. Biol. Chem. 277(42):39209-39216 (2002). Blanco, M.J., et al., Oncogene 21(20):3241-3246 (2002). Okubo, T., et al., Cancer Res. 61(4):1338-1346 (2001).

- [receptor positive breast cancers.](#)
- [Integrin-linked kinase regulates cadherin switch in bladder cancer.](#)
 - [Decitabine inhibits tumor cell proliferation and up-regulates E-cadherin expression in Epstein-Barr virus-associated gastric cancer.](#)
 - [Bone morphogenetic protein-7 prevented epithelial-mesenchymal transition in RLE-6TN cells.](#)
 - [\$\alpha\$ B-Crystallin Regulates Subretinal Fibrosis by Modulation of Epithelial-Mesenchymal Transition.](#)
 - [BMP-7 Attenuated Silica-induced Pulmonary Fibrosis through Modulation of the Balance between TGF- \$\beta\$ /Smad and BMP-7/Smad Signaling Pathway.](#)
 - [Effective Targeting of Estrogen Receptor-Negative Breast Cancers with the Protein Kinase D Inhibitor CRT0066101.](#)
 - [Possible involvement of epithelial-mesenchymal transition in fibrosis associated with IgG4-related Mikulicz's disease.](#)
 - [Dlx-2 is implicated in TGF- \$\beta\$ - and Wnt-induced epithelial-mesenchymal, glycolytic switch, and mitochondrial repression by Snail activation.](#)
 - [FOXM1 Promotes Lung Adenocarcinoma Invasion and Metastasis by Upregulating SNAIL.](#)
 - [Axl mediates tumor invasion and chemosensitivity through PI3K/Akt signaling pathway and is transcriptionally regulated by slug in breast carcinoma.](#)
 - [MTA3 regulates CGB5 and Snail genes in trophoblast.](#)
 - [Suppression of FOXO1 in benzyl isothiocyanate-mediated inhibition of epithelial-mesenchymal transition in human breast cancer cells.](#)
 - [Nuclear expression of snail is an independent negative prognostic factor in human breast cancer.](#)
 - [The epithelial mesenchymal transition process in wilms tumor: a study based on a xenograft model.](#)
 - [Inhibition of p53 induces invasion of serous borderline ovarian tumor cells by accentuating PI3K/Akt-mediated suppression of E-cadherin.](#)
 - [Loss of 15-hydroxyprostaglandin dehydrogenase increases prostaglandin E2 in pancreatic tumors.](#)
 - [Pin1 promotes transforming growth factor-beta-induced migration and invasion.](#)
 - [Epithelial mesenchymal transition in human ocular chronic graft-versus-host disease.](#)
 - [Anti-invasive activity of histone deacetylase inhibitors via the induction of Egr-1 and the modulation of tight junction-related proteins in human hepatocarcinoma cells.](#)
 - [Up-regulation of alpha5-integrin by E-cadherin loss in hypoxia and its key role in the migration of extravillous trophoblast cells during early implantation.](#)
 - [Human mesenchymal stem cells induce E-cadherin degradation in breast carcinoma spheroids by activating ADAM10.](#)
 - [Small C-terminal domain phosphatase enhances snail activity through dephosphorylation.](#)
 - [Aberrant activation of hedgehog signaling pathway in ovarian cancers: effect on prognosis, cell invasion and differentiation.](#)
 - [Beta-catenin activation and epithelial-mesenchymal transition in the pathogenesis of pterygium.](#)
 - [Myofibroblast transdifferentiation of mesothelial cells is mediated by RAGE and contributes to peritoneal fibrosis in uraemia.](#)
 - [Hepatocyte growth factor induces cell scattering through MAPK/Egr-1-mediated upregulation of Snail.](#)