

SNAI1 Antibody (N-term R8)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2054b**Specification**

SNAI1 Antibody (N-term R8) - Product Information

Application	WB,E
Primary Accession	O95863
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	1-30

SNAI1 Antibody (N-term R8) - 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 1-30 amino acids from the N-terminal region of human SNAI1.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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 R8) is for research use only and not for use in diagnostic or therapeutic procedures.

SNAI1 Antibody (N-term R8) - Protein Information**Name** SNAI1**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 (PubMed:[20389281](#), PubMed:[20562920](#)). The N- terminal SNAG domain competes with histone H3 for the same binding site on the histone demethylase complex formed by KDM1A and RCOR1, and thereby inhibits demethylation of histone H3 at 'Lys-4' (in vitro) (PubMed:[20389281](#), PubMed:[21300290](#), PubMed:[23721412](#)). 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

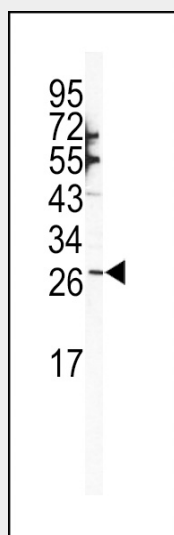
Expressed in a variety of tissues with the highest expression in kidney. Expressed in mesenchymal and epithelial cell lines.

SNAI1 Antibody (N-term R8) - Protocols

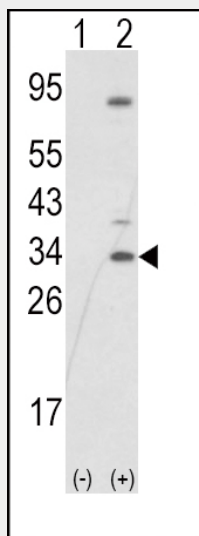
Provided below are standard protocols that you may find useful for product applications.

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

SNAI1 Antibody (N-term R8) - Images



Western blot analysis of SNAI1 Antibody (N-term R8) (Cat.# AP2054b) in NCI-H460 cell line lysates (35ug/lane). SNAI1 (arrow) was detected using the purified Pab.



Western blot analysis of SNAI1 (arrow) using rabbit polyclonal SNAI1 Antibody (N-term R8) (Cat. #AP2054b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the SNAI1 gene (Lane 2) (Origene Technologies).

SNAI1 Antibody (N-term R8) - 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 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 Antibody (N-term R8) - References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002). Deloukas, P., et al., Nature 414(6866):865-871 (2001). Batlle, E., et al., Nat. Cell Biol. 2(2):84-89 (2000). Paznekas, W.A., et al., Genomics 62(1):42-49 (1999). Twigg, S.R., et al., Hum. Genet. 105(4):320-326 (1999).