For Research Use Only

SNAI1 Polyclonal antibody

Catalog Number:13099-1-AP Featured Product 485 Publications

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Basic Information

Catalog Number:
13099-1-AP

Size:
150ul , Concentration: 600 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3723

GenBank Accession Number:
BC012910

GeneID (NCBI):
6615

UNIPROT ID:
O95863

Full Name:
snail homolog 1 (Drosophila)

Calculated MW:
264 aa, 29 kDa

Observed MW:
29-35 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500

Applications

Tested Applications:
WB, IP, IHC, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP, ChIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, goat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse heart tissue, PC-3 cells, BxPC-3 cells, human heart tissue, COLO 320 cells, MCF-7 cells

IP : MCF-7 cells,

IHC : human stomach cancer tissue,

Background Information

SNAI1, a member of SNAI1 family of protein, participates in the epithelial to mesenchymal transition(EMT) and formation and maintenance of embryonic mesoderm. The snail family share a common structural, that a highly conserved C-terminal region containing a zinc finger transcription factor. SNAI1 interacts with other corepressor, such as Ajuba, PRMT5 and SIN3a or HDAC1 and 2, to repress the target gene. As the phosphorylation modification of SNAI1 protein, the range of molecular weight of SNAI1 is about 25-30 kDa (PMID: 22276203). 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Yangke Cai	29097832	Dis Markers	WB
Lei Liu	30273566	Chem Biol Interact	WB
Chenlong Li	31558707	Cell Death Dis	WB

Storage

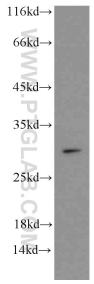
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

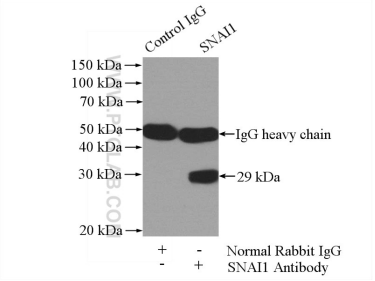
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

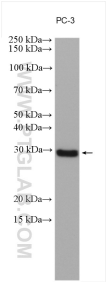
Selected Validation Data



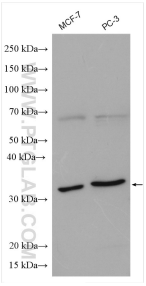
mouse heart tissue were subjected to SDS PAGE followed by western blot with 13099-1-AP (SNAI1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



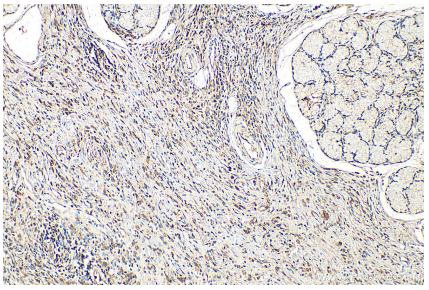
IP result of anti-SNAI1 (IP:13099-1-AP, 4ug; Detection:13099-1-AP 1:600) with MCF-7 cells lysate 1040ug.



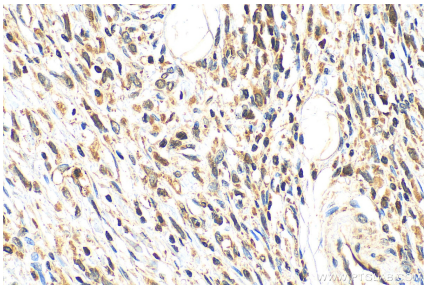
PC-3 cells were subjected to SDS PAGE followed by western blot with 13099-1-AP (SNAI1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



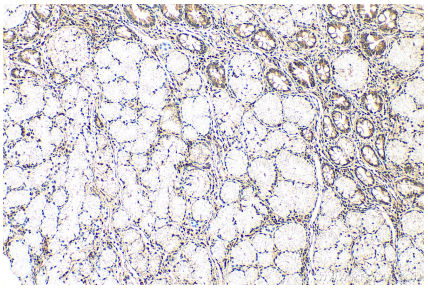
Various lysates were subjected to SDS PAGE followed by western blot with 13099-1-AP (SNAI1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 13099-1-AP (SNAI1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 13099-1-AP (SNAI1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 13099-1-AP (SNAI1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).