

PRODUCT INFORMATION

Product name : SNAI1 antibody

Product type : Primary antibodies

Description : Rabbit polyclonal to SNAI1

Immunogen : 3 synthetic peptides (human) conjugated to KLH

Reacts with : Hu, Ms

Tested applications : ELISA, WB and IF

GENE INFORMATION

Gene Symbol : SNAI1

Gene Name : snail homolog 1 (Drosophila)

Ensembl ID : ENSG00000124216

Entrez GeneID : 6615

GenBank Accession number : AF125377.1

Omim ID : 604238

Swiss-Prot : O95863

Molecular weight of SNAI1 : 29.083kDa

Function : Seems to be involved in embryonic mesoderm formation. Binds to 3 E-boxes of the E-cadherin gene promoter and represses its transcription.

Expected subcellular localization : nucleus.

Expected tissue specificity : Expressed in a variety of tissues with the highest expression in kidney.

Summary : 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]

APPLICATION NOTE

Recommended dilution :

- **ELISA:** Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A titer of 1/9000 has been determined. Appropriate specificity controls were run.
- **WB:** 1/5000.
- **If:** 1/1000.

Optimal dilutions/concentration should be determined by the end user.

Raised in : Rabbit

Clonality : Polyclonal

Isotype : IgG

Purity : Purified antibody

Storage buffer : 0.5 X PBS, containing a final concentration of 50% Glycerol, 0.1% BSA and 0.01% Thimerosal.

Form : Liquid

Storage instruction : Store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

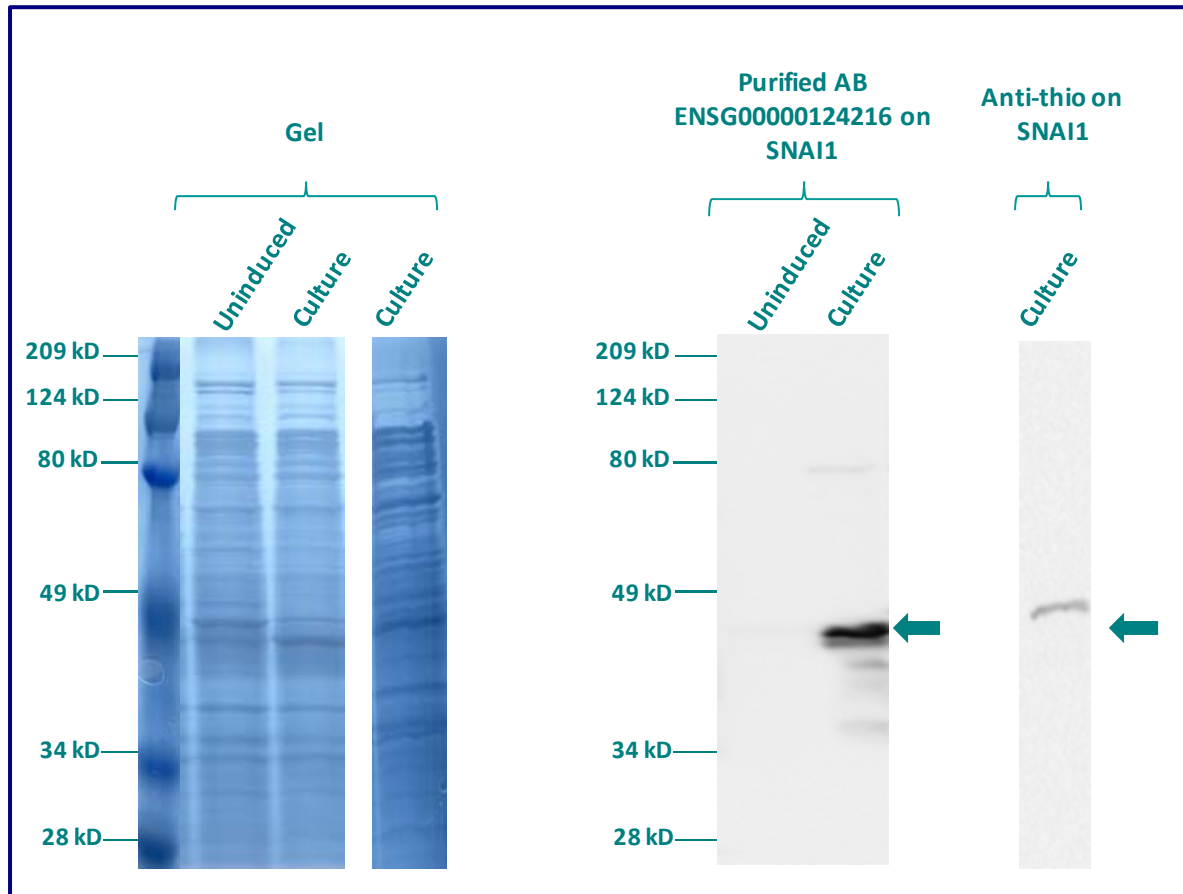
WESTERN BLOT ON RECOMBINANT PROTEIN

The purified antibody ENSG00000124216 has been tested at 1/15000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells).

An anti-Thio (positive control) has been tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells) as a positive control.

Plasmid name : pBAD-DEST49.

Molecular weight of SNAI1 : 43.1kDa (29.1kDa + another 14kDa for the tag).



Gel concentration: 10%

Blocking: in 5% non-fat milk-PBST solution

1st Antibody: The antibodies are diluted in blocking buffer.

- Dilute the purified antibody ENSG00000124216 at 1:5000
- Dilute the anti-thio at 1:5000

60 minutes of incubation

2nd Antibody: The antibody is diluted in blocking buffer.

- Dilute the anti-Rabbit IgG HRP conjugated at 1/10000
- 60 minutes of incubation**

IMMUNOFLUORESCENCE ANALYSIS

Immunofluorescence analysis of Zinc finger protein SNAI1 (SNAI1) expression in 3 cells lines (HELA, Capan-2, SAOS-2). The purified Antibody ENSG00000124216 has been tested at 1/5000.

Red staining : cytoskeleton (microtubules/ α -tubuline)

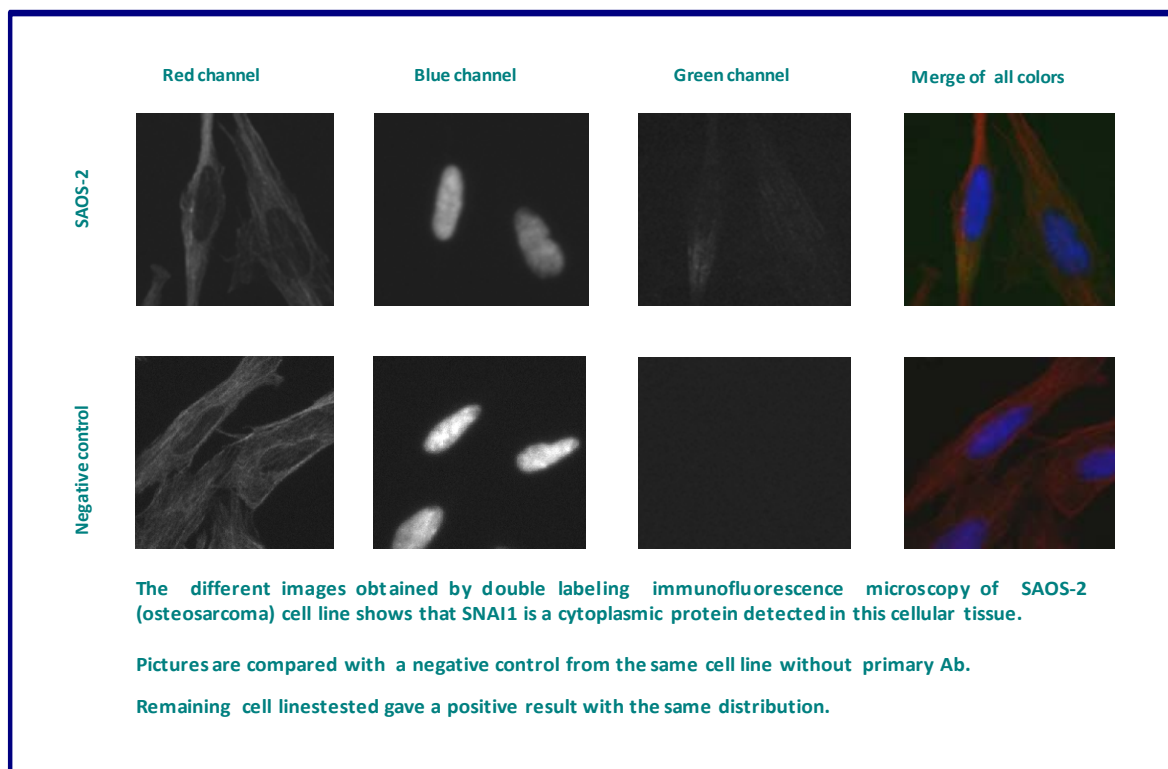
Blue staining : nucleus (Hoechst)

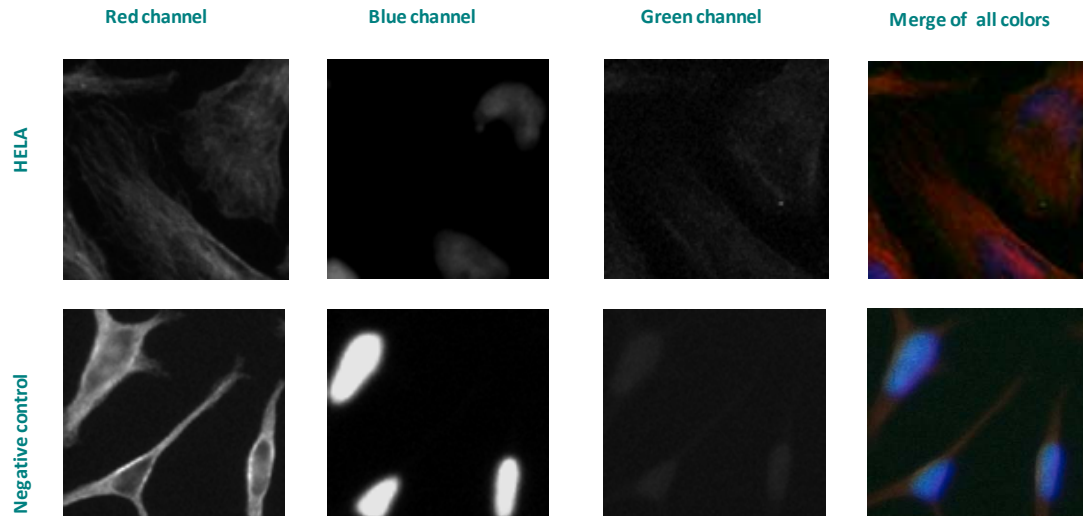
Green staining : anti- SNAI1 antibody (purified)

Expected subcellular location : Nucleus and 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.

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





The different images obtained by double labeling immunofluorescence microscopy of HELA (cervix adenocarcinoma) cell line shows that SNAI1 is a cytoplasmic protein detected in this cellular tissue.

Pictures are compared with a negative control from the same cell line without primary Ab.