



## Rabbit Anti-SNAIL + SLUG antibody

SL11961R

<b>Product Name:</b>	SNAIL + SLUG
<b>Chinese Name:</b>	锌指转录因子Slug+SNAIL抗体
<b>Alias:</b>	SNAIL+SLUG; dJ710H13.1; Protein sna; Protein snail homolog; SLUGH2; SNA; Sna protein; SNAH; SNAI1; Snail homolog 1 (Drosophila); Zinc finger protein SNAI1; SNAI1_HUMAN; Protein snail homolog 1; dJ710H13.1; SNAIL; SNAIL1; Protein sna; Neural crest transcription factor Slug; Protein snail homolog 2; Slug (chicken homolog) zinc finger protein; Slug homolog zinc finger protein; Slug zinc finger protein; SLUGH 1; SLUGH; SLUGH1; SNAI 2; SNAI2; SNAI-2; SNAI2_HUMAN; Snail 2; Snail homolog 2; Snail2; Snail-2; WS 2D; WS2D; Zinc finger protein SLUG; Zinc finger protein SNAI2.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit,Sheep,Guinea Pig,Danio rerio
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	30kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human SNAIL + SLUG:151-250/264
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>

**SNAIL:** 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].

**SLUG:** This gene encodes a member of the Snail family of C2H2-type zinc finger transcription factors. The encoded protein acts as a transcriptional repressor that binds to E-box motifs and is also likely to repress E-cadherin transcription in breast carcinoma. This protein is involved in epithelial-mesenchymal transitions and has antiapoptotic activity. Mutations in this gene may be associated with sporadic cases of neural tube defects. [provided by RefSeq, Jul 2008].

**Function:**

Involved in the epithelial to mesenchymal transition (EMT) and formation and maintenance of embryonic mesoderm. Binds to 3 E-boxes of the E-cadherin gene promoter and represses its transcription.

**Subunit:**

Interacts with FBXL14 and GSK3B. Interacts with BTRC; interaction occurs when it is phosphorylated on the destruction motif. Interacts (via SNAG domain) with WTIP (via LIM domains). Interacts (via SNAG domain) with LIMD1 (via LIM domains), and AJUBA (via LIM domains). Interacts with LOXL2 and LOXL3.

**Subcellular 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 Specificity:**

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

**Post-translational modifications:**

Phosphorylated by GSK3B. Once phosphorylated, it becomes a target for BTRC ubiquitination.

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.

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

**Similarity:**

Belongs to the snail C2H2-type zinc-finger protein family.  
Contains 4 C2H2-type zinc fingers.

**Product Detail:**

**SWISS:**  
O43623

**Gene ID:**  
6615

**Database links:**

[Entrez Gene: 6591](#)Human

[Entrez Gene: 6615](#)Human

[Entrez Gene: 20583](#)Mouse

[Entrez Gene: 20613](#)Mouse

[Omim: 604238](#)Human

[SwissProt: O43623](#)Human

[SwissProt: O95863](#)Human

[SwissProt: P97469](#)Mouse

[SwissProt: Q02085](#)Mouse

[Unigene: 360174](#)Human

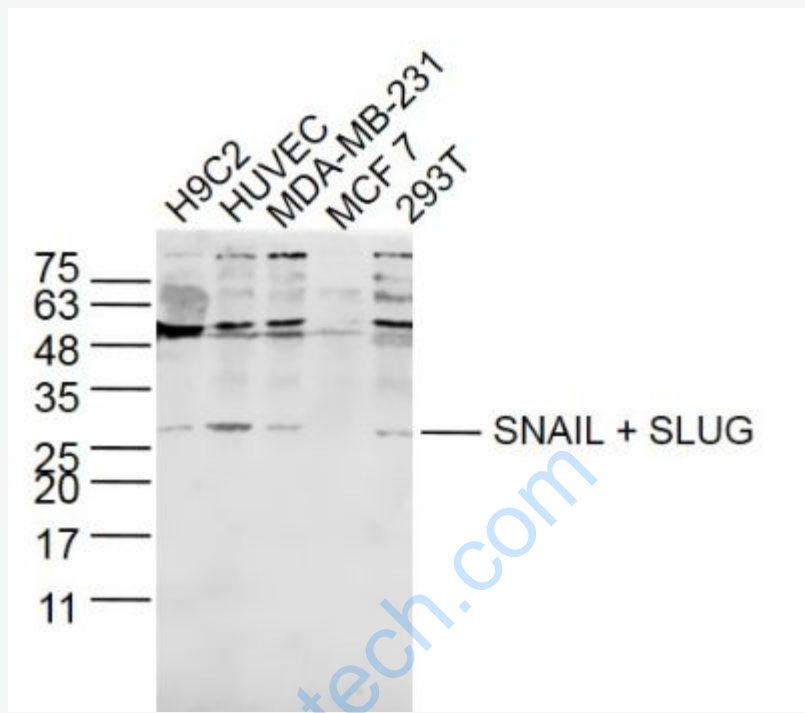
[Unigene: 48029](#)Human

[Unigene: 2093](#)Mouse

[Unigene: 4272](#)Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



**Picture:**

Sample:

H9C2 Cell(Rat) Lysate at 30 ug

HUVEC Cell(Human) Lysate at 30 ug

MAD-MB-231 Cell(Human) Lysate at 30 ug

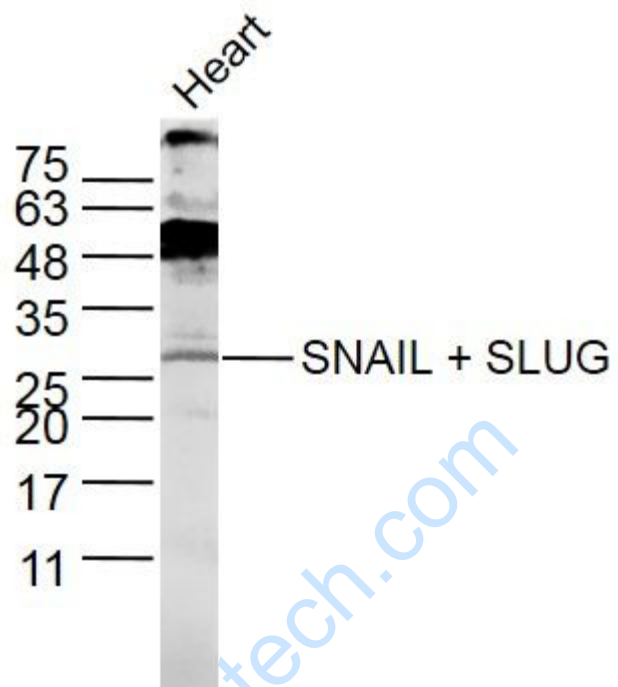
293T Cell(Human) Lysate at 30 ug

Primary: Anti- SNAIL + SLUG (SL11961R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 30 kD

Observed band size: 30 kD



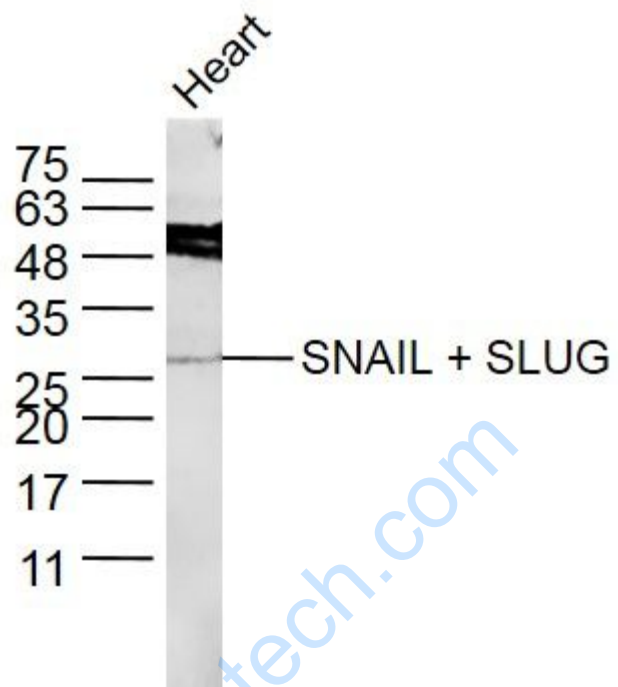
Sample: Heart Cell(Rat) Lysate at 40 ug

Primary: Anti- SNAIL + SLUG (SL11961R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 30 kD

Observed band size: 30 kD



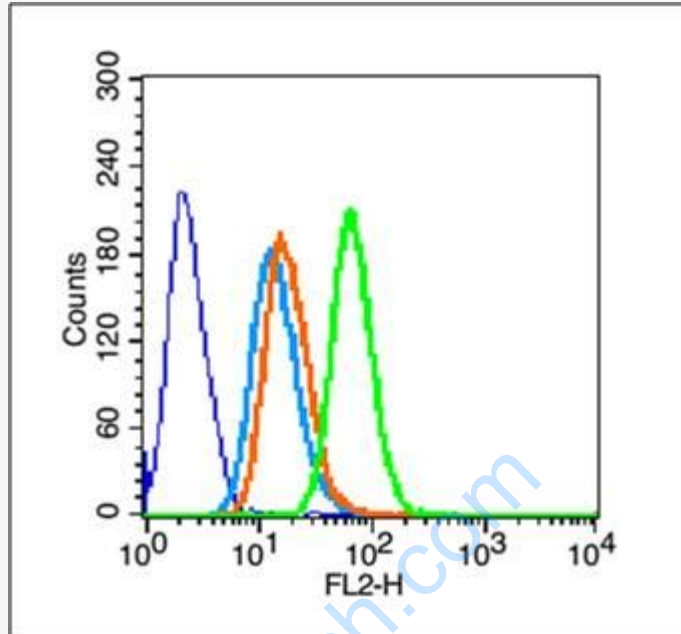
Heart Cell(mouse) Lysate at 40 ug

Primary: Anti- SNAIL + SLUG (SL11961R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 30 kD

Observed band size: 30 kD



Blank control (blue line): HeLa (fixed with 70% methanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C).

Primary Antibody (green line): Rabbit Anti-SNAIL + SLUG antibody (SL11961R),  
Dilution: 1µg /10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE, Dilution: 1µg /test.