

# Product datasheet

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ARG54927 anti-Slug antibody

Package: 50 μg Store at: -20°C

## Summary

Product Description Rabbit Polyclonal antibody recognizes Slug

Tested Reactivity Hu, Ms
Tested Application ELISA, WB

Specificity This Slug antibody is predicted to not cross-react with Snail.

Host Rabbit

**Clonality** Polyclonal

Isotype IgG
Target Name Slug

Species Human

Immunogen Synthetic peptide (13 aa) within aa. 90-140 of Human Slug.

Conjugation Un-conjugated

Alternate Names Protein snail homolog 2; SNAIL2; WS2D; Neural crest transcription factor Slug; Zinc finger protein

SNAI2; SLUG; SLUGH1

### **Application Instructions**

Application table	Application	Dilution
	ELISA	Assay-dependent
	WB	2 μg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	293 Cell Lysate	

#### **Properties**

Form Liquid

**Purification** Affinity purification with immunogen.

Buffer PBS and 0.02% Sodium azide

Preservative 0.02% Sodium azide

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

#### Bioinformation

Database links GeneID: 20583 Mouse

GeneID: 6591 Human

Swiss-port # O43623 Human

Swiss-port # P97469 Mouse

Gene Symbol SNAI2

Gene Full Name snail family zinc finger 2

Background Slug Antibody: Slug, a member of the Snail family of C2H2-type zinc finger transcription factors, was

initially identified to be involved in epithelial-mesenchymal transitions as well as the formation of the neural tube during vertebrate embryogenesis. Like Snail, Slug transcription can be induced by growth factors such as FGF, BMP, and TGF-beta. Once expressed, Slug will bind E-box regions of promoters and repress transcription of genes such as E-cadherin and Claudin-. More recently, its expression in breast, esophogeal, and colorectal carcinomas has been correlated with poor prognosis for survival. Furthermore, Slug can protect hemapoietic progenitor cells from radiation-induced apoptosis by repressing the p53-mediated transcription of Puma, a BH3-only antagonist of the anti-apoptotic

members of the Bcl-2 family.

Function Transcriptional repressor that modulates both activator-dependent and basal transcription. Involved in

the generation and migration of neural crest cells. Plays a role in mediating RAF1-induced

transcriptional repression of the TJ protein, occludin (OCLN) and subsequent oncogenic transformation of epithelial cells (By similarity). Represses BRCA2 expression by binding to its E2-box-containing silencer and recruiting CTBP1 and HDAC1 in breast cells. In epidermal keratinocytes, binds to the E-box in ITGA3 promoter and represses its transcription. Involved in the regulation of ITGB1 and ITGB4 expression and cell adhesion and proliferation in epidermal keratinocytes. Binds to E-box2 domain of BSG and activates its expression during TGFB1-induced epithelial-mesenchymal transition (EMT) in hepatocytes. Represses E-Cadherin/CDH1 transcription via E-box elements. Involved in osteoblast maturation. Binds to RUNX2 and SOC9 promoters and may act as a positive and negative transcription regulator, respectively, in osteoblasts. Binds to CXCL12 promoter via E-box regions in mesenchymal stem cells and osteoblasts. Plays an essential role in TWIST1-induced EMT and its ability to promote

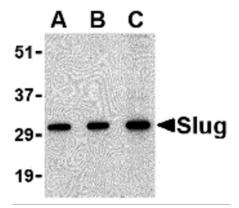
invasion and metastasis. [UniProt]

Research Area Cancer antibody; Controls and Markers antibody; Developmental Biology antibody; Gene Regulation

antibody; Neuroscience antibody

Calculated Mw 30 kDa

PTM GSK3B-mediated phosphorylation results in cytoplasmic localization and degradation.



# ARG54927 anti-Slug antibody WB image

Western blot: 293 cell lysate stained with ARG54927 anti-Slug antibody at in (A) 0.5, (B) 1 and (C) 2 ug/ml dilution.