

Rabbit SNAI2 Polyclonal Antibody | anti-SNAI2 antibody

SNAI2 Antibody

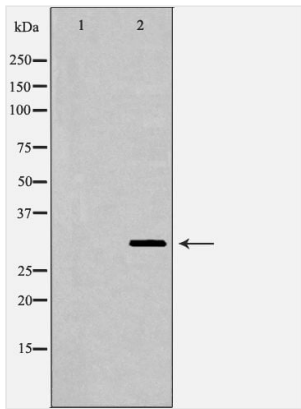
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325983	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SNAI2; Polyclonal Antibody; SNAI2 Antibody; dJ710H13.1; MGC10182; Neural crest transcription factor Slug; Protein sna; Protein snail homolog 1; Protein snail homolog 2; Protein snail homolog; Slug homolog zinc finger protein; Slug zinc finger protein; SLUGH; SLUGH 1; SLUGH1; SLUGH2; SNA; Sna protein; SNAH; SNAI 2; snai1; SNAI1_HUMAN; Snai2; SNAI2_HUMAN; Snail 2; Snail homolog 1 (Drosophila); Snail homolog 2; Snail2; WS 2D; WS2D; Zinc finger protein SLUG; Zinc finger protein SNAI1; Zinc finger protein SNAI2; anti-SNAI2 antibody

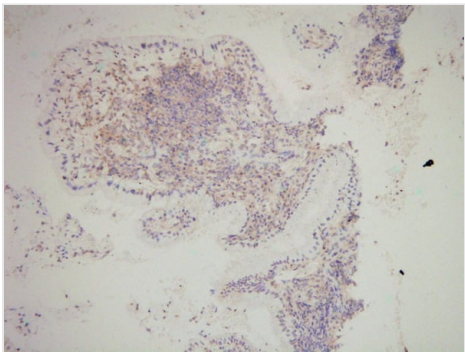
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SNAI2 antibody detects endogenous levels of total SNAI2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	268
Applicable Applications for anti-SNAI2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SNAI2
Subcellular Location	Slug is generally nuclear, while snail is known to be both cytoplasmic and nuclear. Once phosphorylated (probably on Ser-107, Ser-111, Ser-115 and Ser-119) snail is exported from the nucleus to the cytoplasm where subsequent phosphorylation of the destruction motif and ubiquitination involving BTRC occurs.
Tissue Specificity	Expressed in most adult human tissues, including spleen, thymus, prostate, testis, ovary, small intestine, colon, heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Not detected in peripheral blood leukocyte. Expressed in the dermis and in all layers of the epidermis, with high levels of expression in the basal layers (at protein level). Expressed in osteoblasts (at protein level). Expressed in mesenchymal stem cells (at protein level). Expressed in breast tumor cells (at protein level).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



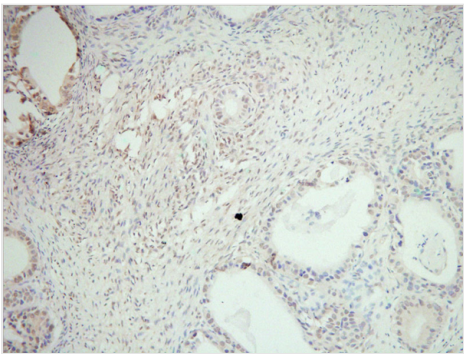
WB (Western Blot)

Western blot analysis of pancreas lysate using SNAI2 antibody. The lane on the left is treated with the antigen-specific peptide.



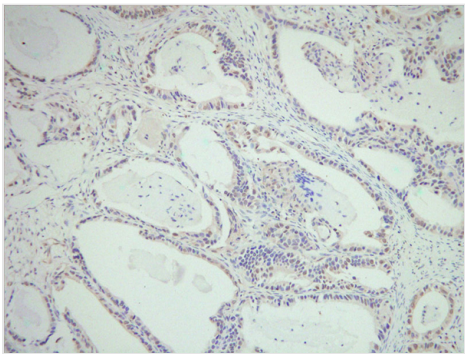
IHC (Immunohistochemistry)

SNAI2 Antibody(AAA325983) staining human cervical carcinoma tissue sections by IHC-f at 1:200.



IHC (Immunohistochemistry)

SNAI2 Antibody(AAA325983) staining human ovarian cancer tissue sections by IHC-f at 1:200.



IHC (Immunohistochemistry)

SNAI2 Antibody(AAA325983) staining human ovarian cancer tissue sections by IHC-f at 1:200.(200x).

ADDITIONAL INFORMATION

Related Product Information for anti-SNAI2 antibody	Description: Slug (SNAI2) is a widely expressed transcriptional repressor and member of the Snail family of zinc finger transcription factors (1). Similar to the related Snail protein, Slug binds to the E-cadherin promoter region to repress transcription during development (2). The binding of Slug to integrin promoter sequences represses integrin expression and results in reduced cell adhesion (3). Down regulation of E-cadherin expression occurs during the epithelial-mesenchymal transition during embryonic development, a process also exploited by invasive cancer cells (4, 5). The tumor suppressor protein p53 induces Slug expression in gamma-irradiated cells; Slug protects damaged cells from apoptosis by repressing p53-induced transcription of the proapoptotic Bcl-2 family protein Puma (6). Deletion mutations in the corresponding Slug gene are associated with the pigmentation disorders Waardenburg Syndrome and Piebaldism, while a genetic duplication resulting in Slug overexpression is associated with a collection of congenital heart defects termed tetralogy of Fallot (7). 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. Subunit Structure: Interacts (via SNAG domain) with LIMD1 (via LIM domains), WTIP (via LIM domains) and AJUBA (via LIM domains) (By similarity). Interacts (via zinc fingers) with KPNA2, KPNB1, and TNPO1. May interact (via zinc fingers) with IPO7. Post-translational Modifications: GSK3B-mediated phosphorylation results in cytoplasmic localization and degradation. Similarity: Repression activity depends on the C-terminal DNA-binding zinc fingers and on the N-terminal repression domain. Belongs to the snail C2H2-type zinc-finger protein family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	11276067
NCBI GeneID	6591
NCBI Accession #	NP_003059.1
NCBI GenBank Nucleotide #	NM_003068.4
UniProt Accession #	O43623; Q53FC1; B2R6P6
Molecular Weight	Observed: 30 kDa Predicted: 30 kDa
NCBI Official Full Name	zinc finger protein SNAI2
NCBI Official Synonym Full Names	snail family transcriptional repressor 2
NCBI Official Symbol	SNAI2
NCBI Official Synonym Symbols	SLUG; WS2D; SLUGH; SLUGH1; SNAIL2
NCBI Protein Information	zinc finger protein SNAI2
UniProt Protein Name	Zinc finger protein SNAI2
UniProt Gene Name	SNAI2
UniProt Synonym Gene Names	SLUG; SLUGH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

