

# Product Datasheet

## Snail Antibody NBP1-19529-0.01mg

Unit Size: 0.01 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-19529-0.01mg**

Snail Antibody

<b>Product Information</b>	
<b>Unit Size</b>	0.01 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH 7.2)
<b>Target Molecular Weight</b>	29 kDa
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	6615
<b>Gene Symbol</b>	SNAI1
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Synthetic phosphopeptide derived from human SNAI 1 around the phosphorylation site of Serine 246.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1:500-1:1000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunohistochemistry-Paraffin 1:50-1:200
<b>Application Notes</b>	Western blot (WB) analyzes of SNAI 1 (A242) pAb in extracts from HT29 cells. Immunohistochemistry (IHC) analyzes of SNAI 1 (A242) pAb in paraffin-embedded human lung carcinoma tissue.



## Publications

Liu T, Zhao X, Zheng X et al. The EMT transcription factor, Twist1, as a novel therapeutic target for pulmonary sarcomatoid carcinomas *Int J Oncol* 2020-01-29 [PMID: 32124963]

Zhang XY, Gao PT, Yang X et al. Reduced selenium-binding protein 1 correlates with a poor prognosis in intrahepatic cholangiocarcinoma and promotes the cell epithelial-mesenchymal transition *Am J Transl Res* 2018-11-15 [PMID: 30662608] (WB, Human)

Wang J, Ye Q, Cao Y et al. Snail determines the therapeutic response to mTOR kinase inhibitors by transcriptional repression of 4E-BP1. *Nat Commun* 2017-12-20 [PMID: 29263324] (IHC-P, Human)

Woods LT, Camden JM, El-Sayed FG et al. Increased Expression of TGF- $\beta$  Signaling Components in a Mouse Model of Fibrosis Induced by Submandibular Gland Duct Ligation. *PLoS ONE*. 2015-05-09 [PMID: 25955532] (ICC/IF, Mouse)

Choi YJ, Kim N, Chang H et al. Helicobacter pylori-induced epithelial-mesenchymal transition, a potential role of gastric cancer initiation and an emergence of stem cells. *Carcinogenesis*. 2015-03-16 [PMID: 25784376] (IHC-P, Human)

Hardin H, Guo Z, Shan W et al. The Roles of the Epithelial-Mesenchymal Transition Marker PRRX1 and MicroRNA 146b-5p in Papillary Thyroid Carcinoma Progression. *Am. J. Pathol.* 2014-06-17 [PMID: 24946010] (WB, Human)

### Details:

Used for IHC-P of PRRX1 on whole sections of FFPE lymph node tissues /seven Papillary Thyroid Carcinoma (PTCs) and one anaplastic thyroid carcinoma (ATC) TMAs with automated immunostaining procedure/ Lab Vision 360 LV-1 Autostainer system - 1:20 dilution, incubation 1 hr followed by biotinylated goat anti-rabbit IgG for 15 minutes, 4+ streptavidin-horseradish peroxidase treatment for 15 minutes followed by DAB and hematoxylin 1 minute each. PRRX1 staining evaluated based on the presence or absence of nuclear immunoreactivity in thyroid epithelial cells.

Gu H, Mickler EA, Cummings OW et al. Crosstalk between TGF- $\beta$ 1 and complement activation augments epithelial injury in pulmonary fibrosis. *FASEB J*. 2014-06-23 [PMID: 24958208] (WB, Human)

### Details:

Figure 8C- Normal primary human small airway epithelial cells (SAECs) were treated with or without TGF-1 (10 ng/ml) and cell lysates were immunoblotted against specific receptors C3aR and C5aR (-actin, loading control).

Huang XY, Zhang C, Cai JB et al. Comprehensive multiple molecular profile of epithelial mesenchymal transition in intrahepatic cholangiocarcinoma patients. *PLoS ONE*. 2014-05-12 [PMID: 24816558] (IHC-P, WB, Human)

Li C, Siragy HM. High Glucose Induces Podocyte Injury via Enhanced (Pro)renin Receptor-Wnt-beta-Catenin-Snail Signaling Pathway. *PLoS ONE* 2014-02-17 [PMID: 24533170] (WB, Mouse)

Sung CO, Choi H, Lee KW, Kim SH. Sarcomatoid carcinoma represents a complete phenotype with various pathways of epithelial mesenchymal transition *J Clin Pathol* 2013-03-26 [PMID: 23533257]

Ryu HS, Park do J, Kim HH, Kim WH, Lee HS. Combination of epithelial-mesenchymal transition and cancer stem cell-like phenotypes has independent prognostic value in gastric cancer. *Hum Pathol*;43(4):520-8. 2012-04-01 [PMID: 22018628] (IF/IHC, Human)

## Procedures

### Immunohistochemistry-Paraffin Embedded Sections Protocol for NBP1-19529 (NBP1-19529)

#### Immunohistochemistry-Paraffin Embedded Sections

##### Deparaffinization/Rehydration

1. Heat slides in an oven at 65 C for 1 hour.
2. De-paraffinize/hydrate using the following series of washes:
  - two Xylene washes (3 min each)
  - followed by two 100% ethanol rinses (3 min each)
  - followed by 95% ethanol, 70% ethanol, 50% ethanol, 30% ethanol
  - followed by TBST wash for 3 min on a shaker

##### Antigen Retrieval

This is recommended Heat Induced Epitope Retrieval (HIER) using Decloaking Chamber/Pressure Cooker. Hot water bath or Microwave with temperature sensor can be also used (protocol would vary depending on the method used).

1. Add 500 ml of dH 2O to Decloaker/Pressure Cooker.
2. Immerse slides into staining dish containing Antigen Retrieval Solution. Place staining dish into decloaking chamber.
3. Program to run for 30 seconds at 125C, followed by 10 seconds at 90C.
4. Let it cool down to room temperature (10 - 20 minutes).
5. Removes slides and rinse in TBST.
6. Proceed to Staining step.

##### Staining

1. Wash slides with TBST for 3 min on a shaker.
2. Inactivate endogenous peroxidase by covering tissue with 3% hydrogen peroxide for 5 min.
3. Wash slides three times with TBST (3 min each on a shaker).
4. Block slides with the blocking solution for 1 hour.
5. Dilute primary antibody in primary antibody diluent per recommendation on data sheet.
6. Apply primary antibody to each section and incubate overnight in the humidified chamber (4C).
7. Wash slides three times with TBST (3 min each on a shaker).
8. Apply to each section secondary HRP-conjugated anti-rabbit antibody diluted in the blocking solution per manufacturer's recommendation; incubate for 30 min at room temperature.
9. Wash slides three times with TBST (5 min each on a shaker).
10. Add freshly prepared DAB substrate to the sections and incubate until stain develops (generally 1 min).
11. Rinse sections with water.
12. Counterstain with Hematoxylin (generally 10 seconds).
13. Rinse sections with water.
14. Dehydrate samples using two washes with 100% Ethanol (3 min each), followed by two rinses with Xylene (3 min each).
15. Mount coverslips on slides using permanent mounting medium.



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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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