Datasheet for ABIN3042486

anti-SLUG antibody (Middle Region)

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Overview

Quantity:	100 µg
Target:	SLUG (SNAI2)
Binding Specificity:	AA 116-148, Middle Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLUG antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-SLUG/SNAI2 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human SLUG, identical to the related mouse and rat sequences.
Sequence:	KLSDPHAIEA EKFQCNLCNK TYSTFSGLAK HKQ
Cross-Reactivity (Details):	No cross reactivity with other proteins
Characteristics:	Anti-SLUG/SNAI2 Antibody Picoband® (ABIN3042486). Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	SLUG (SNAI2)
Alternative Name:	SNAI2 (SNAI2 Products)
Background:	Synonyms: Zinc finger protein SNAI2,Neural crest transcription factor Slug,Protein snail homolog 2,SNAI2,SLUG, SLUGH, 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). . Background: SLUG is also known as SNAI2. 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 sporatic cases of neural tube defects. Sequence Similarities: Belongs to the snail C2H2-type zinc-finger protein family.
Molecular Weight:	30 kDa
Gene ID:	6591
UniProt:	O43623

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Rat 1. "Entrez Gene: SNAI2 snail homolog 2 (Drosophila) 2. Cohen ME, Yin M, Paznekas WA, Schertzer M, Wood S, Jabs EW (Oct 1998). "Human SLUG gene organization, expression, and chromosome map location on 8q". Genomics 51 (3): 468-71. 3. Rhim H, Savagner P, Thibaudeau G, Thiery JP, Pavan WJ (Jan 1998). "Localization of a neural crest transcription factor, Slug, to mouse chromosome 16 and human chromosome 8". Mamm Genome 8 (11): 872-3.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

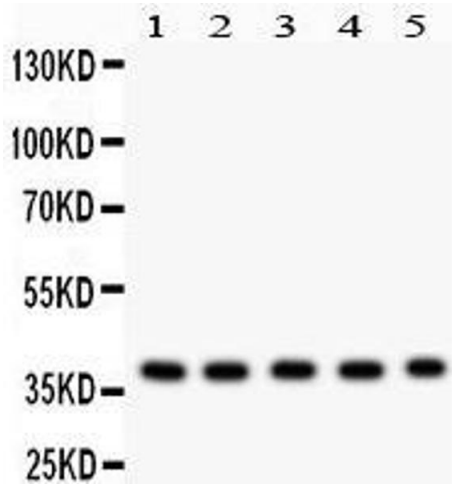
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

Product cited in:	Ren, Qiu, Lü, Ru, Li, Xiang, Yu, Zhang: "TALENs-directed knockout of the full-length transcription factor Nrf1α that represses malignant behaviour of human hepatocellular carcinoma (HepG2) cells." in: **Scientific reports**, Vol. 6, pp. 23775, (2017) (PubMed).

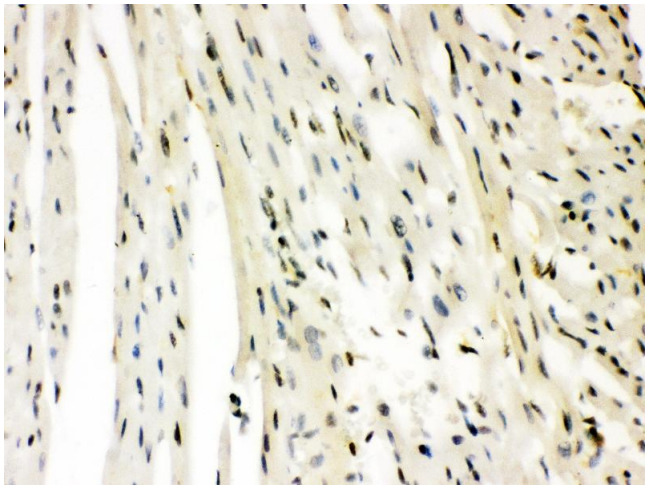
Images



Western Blotting

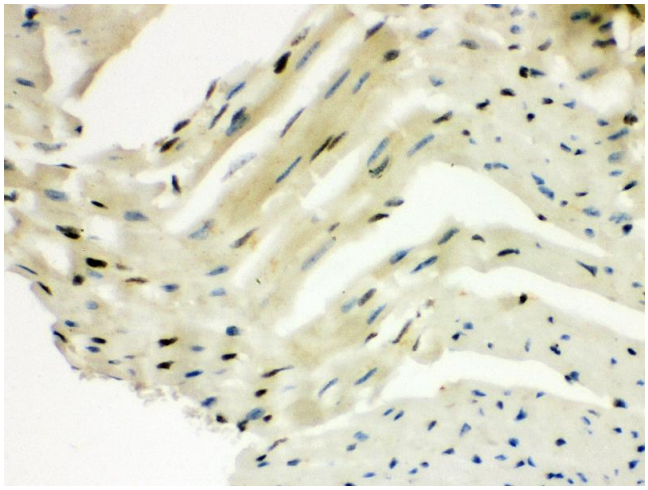
Image 1. Anti- SLUG Picoband antibody, Western blotting All lanes: Anti SLUG at 0.5ug/ml Lane 1: Mosue Kidney Tissue Lysate at 50ug Lane 2: Mouse Lung Tissue Lysate at 50ug Lane 3: Mouse Spleen Tissue Lysate at 50ug Lane 4: Mouse Brain Tissue Lysate at 50ug Lane 5: MCF-7 Whole Cell Lysate at 40ug Predicted bind size: 30KD Observed bind size: 39KD

Images



Immunohistochemistry

Image 2. Anti- SLUG Picoband antibody,IHC(P) IHC(P): Rat Cardiac Muscle Tissue



Immunohistochemistry

Image 3. Anti- SLUG Picoband antibody,IHC(P) IHC(P): Mouse Cardiac Muscle Tissue