




Product datasheet

Anti-SNAIL + SLUG antibody ab167609

[19 References](#) [3 Images](#)

Overview

Product name	Anti-SNAIL + SLUG antibody
Description	Mouse polyclonal to SNAIL + SLUG
Host species	Mouse
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human, Recombinant fragment Predicted to work with: Chimpanzee, Rhesus monkey, Gorilla, Orangutan 
Immunogen	Recombinant full length protein aa 1-264. Corresponding to Human SNAIL. Sequence: MPRSFLVRKPSDPNRKPNYSELQDSNPEFTFQQPYDQAH LLAAIPPPEIL NPTASLPMLIWDSVLAPQAQPIAWASLRLQESPRVAELTS LSEDESGKGS QPPSPSPAPSSFSSTSVSSLEAEYAAFPGLGQVPKQL AQLSEAKDLQA RKA FNCKYCNKEYLSLGALKMHIRSHTLPCVCGTCGKA FS RPWLLQGHVR THTGEKPFSCPHCSRAFADRSNLRAHLQTHSDVKKYQCQ ACARTFSRMSL LHKHQESGCSGCPR Database link: NP_005976.2  Run BLAST with  Run BLAST with
Positive control	SNAIL transfected 293T cell lysate. HeLa cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	pH: 7.4 Constituent: 99% PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

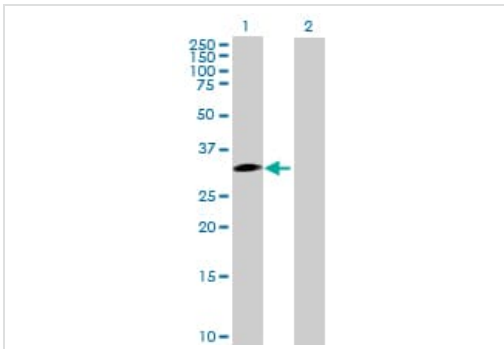
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab167609 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 29 kDa.
ICC/IF		Use a concentration of 10 µg/ml.

Target

Relevance	Function: SNAIL is involved in the epithelial to mesenchymal transition (EMT) and formation and maintenance of embryonic mesoderm (By similarity). Binds to 3 E-boxes of the E-cadherin gene promoter and represses its transcription. SLUG is a transcriptional repressor, involved in the generation and migration of neural crest cells. PTM: SNAIL is 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. Similarity: Both SNAIL and SLUG belong to the snail C2H2-type zinc-finger protein family. Tissue specificity: SNAIL is expressed in a variety of tissues with the highest expression in kidney. Expressed in mesenchymal and epithelial cell lines. SLUG is expressed in placenta and adult heart, pancreas, liver, kidney and skeletal muscle.
Cellular localization	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.

Images



Western blot - Anti-SNAIL + SLUG antibody
(ab167609)

All lanes : Anti-SNAIL + SLUG antibody (ab167609) at 1 $\mu\text{g/ml}$

Lane 1 : SNAIL transfected 293T cell lysate

Lane 2 : Non-transfected 293T cell lysate

Lysates/proteins at 15 μl per lane.

Secondary

All lanes : Goat anti-Mouse IgG

Predicted band size: 29 kDa



Immunocytochemistry/ Immunofluorescence - Anti-SNAIL + SLUG antibody (ab167609)

Immunofluorescent analysis of HeLa cells labeling SNAIL with ab167609 at 10 $\mu\text{g/ml}$.



Western blot - Anti-SNAIL + SLUG antibody
(ab167609)

Lane 1 : Monoclonal Mouse anti-GST at 1 µg

Lanes 2 & 5 : Milk at 5 %

Lane 3 : Anti-SNAIL + SLUG antibody (ab167609) at 1 µg

Lane 4 : Monoclonal Mouse anti-GST at 1 µg/ml

Lane 6 : Anti-SNAIL + SLUG antibody (ab167609) at 1 µg/ml

Lanes 1-3 : SNAIL-GST fusion protein

Lanes 4-6 : SLUG-GST-fusion protein

Lysates/proteins at 0.2 µg per lane.

Secondary

All lanes : HRP conjugated Goat anti-mouse at 1/5000 dilution

Predicted band size: 29 kDa

Additional bands at: 55.5 kDa (possible tagged protein), 56.4 kDa (possible tagged protein)

Exposure time: 90 seconds

Substrate: Perkin Elmer

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