Overview

Product name: Anti-SNAIL + SLUG antibody
Description: Rabbit polyclonal to SNAIL + SLUG
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P
Species reactivity: Reacts with: Human, Recombinant fragment
Predicted to work with: Rat ▲ Does not react with: Mouse

Immunogen: Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human SNAIL. Read Abcam's proprietary immunogen policy(Peptide available as ab19126.)


General notes: Batches sold under ab85936 have passed QC testing in Western Blot (Recombinant only) and IHC. In our hands, this product did not work in ICC/IF. For further information please contact our Customer Services team.

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer: Preservative: 0.02% Sodium Azide
Constituents: 1% BSA, PBS, pH 7.4
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab85936 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
### 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.

### Application

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<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 µg/ml. Predicted molecular weight: 29 kDa. Can be blocked with <a href="https://www.abcam.com">Human SNAIL peptide (ab19126)</a>. Please note this antibody has only been shown to detect recombinant protein and we are unable to detect endogenous protein by western blot, in our lab. Please contact our scientific support services if you have any queries regarding this antibody.</td>
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<tr>
<td>IHC-P</td>
<td>★★★★★</td>
<td>Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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### Target

#### Images
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SNAIL + SLUG antibody (ab85936)

IHC image of ab85936 staining in human breast ductal carcinoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab85936, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.
All lanes: Anti-SNAIL + SLUG antibody (ab85936) at 1 µg/ml

Lane 1: SLUG (SNAI2) Human - GST Tagged Recombinant Protein

Lane 2: SNAIL (SNAI1) - GST Tagged Recombinant Protein

Lysates/proteins at 0.1 µg per lane.

Secondary

All lanes: Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 29 kDa

Observed band size: 65 kDa

Exposure time: 30 seconds

Please note this antibody has only been shown to detect recombinant protein and we are unable to detect endogenous protein by western blot, in our lab. Please contact our scientific support services if you have any queries regarding this antibody.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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