Human Snail Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3639

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Snail in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Snail Pro2-Arg264 Accession # O95863
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

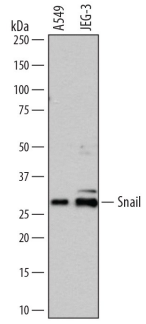
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Chromatin Immunoprecipitation (ChIP)	5 µg/5 x 10^6 cells	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Intracellular Staining by Flow Cytometry	0.25 µg/10^6 cells	See Below

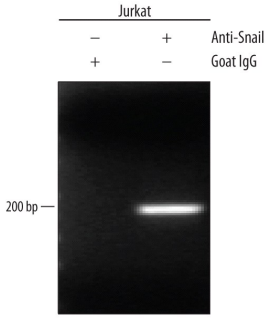
DATA

Western Blot



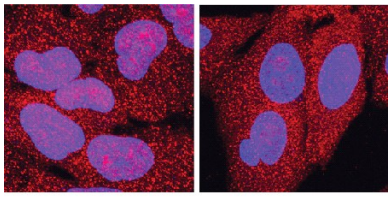
Detection of Human Snail by Western Blot. Western blot shows lysates of A549 human lung carcinoma cell line and JEG-3 human epithelial choriocarcinoma cell line. PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human Snail Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3639) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for Snail at approximately 29 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Chromatin Immunoprecipitation (ChIP)



Detection of Snail-regulated Genes by Chromatin Immunoprecipitation. Jurkat human acute T cell leukemia cell line treated with 50 ng/mL PMA and 200 ng/mL calcium ionomycin for 30 minutes was fixed using formaldehyde, resuspended in lysis buffer, and sonicated to shear chromatin. Snail/DNA complexes were immunoprecipitated using 5 µg Goat Anti-Human Snail Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3639) or control antibody (Catalog # AB-108-C) for 15 minutes in an ultrasonic bath, followed by Biotinylated Anti-Goat IgG Secondary Antibody (Catalog # BAF109). Immunocomplexes were captured using 50 µL of MagCellect Streptavidin Ferrofluid (Catalog # MAG999) and DNA was purified using chelating resin solution. The *E-Cadherin* promoter was detected by standard PCR.

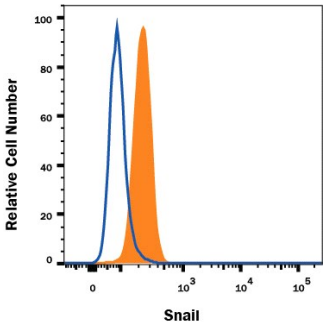
Immunocytochemistry



Treated Untreated

Snail in A549 Human Cell Line. Snail was detected in immersion fixed A549 human lung carcinoma cell line treated with Recombinant Human TGF-beta 1 (left panel, Catalog # 240-B) or untreated (right panel) using Goat Anti-Human Snail Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3639) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Intracellular Staining by Flow Cytometry



Detection of Snail in A549 Human Cell Line by Flow Cytometry. A549 human lung carcinoma cell line was stained with Goat Anti-Human Snail Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3639, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Fluorescein-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0109). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012). View our protocol for Staining Intracellular Molecules.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956

Human Snail Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3639

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Snail is predicted 29 kDa nuclear zinc finger transcriptional repressor that contains an N-terminal basic SNAG domain followed by three classical and one atypical zinc finger domains. During development, Snail is required for the establishment of left-right axis asymmetry. It also regulates the transcription of E-cadherin and other genes involved in epithelial-mesenchymal transitions during cancer progression. Human Snail shares 88% amino acid sequence identity with mouse and rat Snail.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956