

Datasheet for ABIN2689904
anti-SLUG antibody

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Overview

Quantity:	50 µg
Target:	SLUG (SNAI2)
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SLUG antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Biolmaging (BI), Immunohistochemistry (Formalin-fixed Sections) (IHC (f)), Intracellular Staining (ICS)

Product Details

Brand:	BD Pharmingen™
Immunogen:	Human SNAI2 Recombinant Protein
Clone:	S43
Isotype:	IgG1 kappa
Characteristics:	The S43-1259 monoclonal antibody specifically recognizes SNAI2, also named Slug, which is a zinc finger transcriptional repressor first recognized for its roles in embryogenesis. SNAI2/Slug and other members of the snail family of transcription factors inhibit the expression of E-cadherin, which plays important roles in cell adhesion and in the maintenance of tissue structure. SNAI2/Slug activation and E-cadherin inhibition induces epithelial-mesenchymal transition (EMT) at several stages of embryonic development and also contributes to the invasiveness of malignancies. Aberrant expression of SNAI2/Slug has also been linked to

cancer stem cell formation, cell cycle regulation and apoptosis. SNAI2/Slug is a downstream effector of various signaling pathways, including Akt, Wnt and SCF/ckit signaling.

Immunofluorescent, flow cytometric, western blot, and immunohistochemical analysis of SNAI2/Slug in human sarcoma cells. FAR LEFT: RH-30 rhabdomyosarcoma cells (DSMZ, ACC 489) were fixed with BD Cytotfix™ Fixation Buffer (Cat. No. 554655), permeabilized with BD Perm/Wash™ Buffer (Cat No. 554723) and stained with Purified Mouse Anti-SNAI2/Slug (pseudo-colored green) at 1.2 µg/mL followed by Alexa Fluor® 488 goat anti-mouse Ig (Life Technologies). Nuclear counter-staining was with DAPI (pseudo-colored blue). The images were captured on a BD Pathway™ 435 Cell Analyzer and merged using BD Attovision™ software. Permeabilization with BD Phosflow™ Perm Buffer III (Cat. No. 558050) or 0.1 % Triton™ X-100 buffer is also suitable. MIDDLE LEFT: RH-30 cells were fixed and permeabilized with the BD Pharmingen™ Transcription Factor Buffer Set (Cat No. 562574) and stained with either Purified Mouse IgG1 κ Isotype Control (Cat No. 554121, dashed line) or Purified Mouse Anti-SNAI2/Slug (solid line), followed by PE Goat Anti-Mouse Ig (Multiple Adsorption) (Cat No. 550589). The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable cells. Flow cytometry was performed using a BD LSRFortessa™ Cell Analyzer. MIDDLE RIGHT: Lysates of RH-30 cells were electrophoresed (SDS-PAGE), transferred to PVDF membranes and then probed with 125, 60, 30, 15 and 7 ng/mL of Purified Mouse Anti-SNAI2/Slug (lanes 1-5) and HRP goat anti-mouse Ig (Cat. No. 554002). FAR RIGHT: Following antigen retrieval with Retrieval Buffer A (Cat. No. 550524), formalin-fixed paraffin sections of a human fibrosarcoma were stained with either Purified Mouse IgG1 κ Isotype Control (Cat. No. 550878, left) or Purified Mouse Anti-SNAI2/Slug (right). Biotin Goat Anti-Mouse Ig (Multiple Adsorption) (Cat. No. 550337), Streptavidin HRP (Cat. No. 550946), and the DAB Substrate Kit (Cat. No. 550880) were used to develop the staining. Original magnification: 40x.

BD Pharmingen™ Purified Mouse Anti-SNAI2/Slug - Purified - Clone S43-1259 - Isotype Mouse IgG1, κ - Reactivity Hu, Ms - 50 µg

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	SLUG (SNAI2)
Alternative Name:	SNAI2/Slug (SNAI2 Products)
Background:	Synonyms: Snai2, SLUG, Slugh, SLUGH

Target Details

Molecular Weight: 30-34 kDa

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Concentration: 0.5 mg/mL

Buffer: Aqueous buffered solution containing ≤ 0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Store undiluted at 4°C.

Publications

Product cited in: Carpenter, Paw, Dewhirst, Lo: "Akt phosphorylates and activates HSF-1 independent of heat shock, leading to Slug overexpression and epithelial-mesenchymal transition (EMT) of HER2-overexpressing breast cancer cells." in: **Oncogene**, Vol. 34, Issue 5, pp. 546-57, (2015) ([PubMed](#)).

Guo, Keckesova, Donaher, Shibue, Tischler, Reinhardt, Itzkovitz, Noske, Zürrer-Härdi, Bell, Tam, Mani, van Oudenaarden, Weinberg: "Slug and Sox9 cooperatively determine the mammary stem cell state." in: **Cell**, Vol. 148, Issue 5, pp. 1015-28, (2012) ([PubMed](#)).

Francí, Takkunen, Dave, Alameda, Gómez, Rodríguez, Escrivà, Montserrat-Sentís, Baró, Garrido, Bonilla, Virtanen, García de Herreros: "Expression of Snail protein in tumor-stroma interface." in: **Oncogene**, Vol. 25, Issue 37, pp. 5134-44, (2006) ([PubMed](#)).