

Anti-SLUG Antibody [PSH07-40]

HA722828



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell
Molecular Wt:	Predicted band size: 30 kDa
Clone number:	PSH07-40

Description: This gene encodes a member of the Snail superfamily 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. It regulates differentiation and migration of neural crest cells along with other genes (e.g. FOXD3, SOX9 and SOX10, BMPs) in embryonic life. Mutations in this gene may be associated with sporadic cases of neural tube defects. SNAI2 downregulates expression of E-cadherin in premigratory neural crest cells; thus, SNAI2 induces tightly bound epithelial cells to break into a loose mesenchymal phenotype, allowing gastrulation of mesoderm in the developing embryo. Structurally similar to anti-apoptotic Ces-1 in *C. elegans*, SLUG is a negative regulator of productive cell death in the developing embryo and adults.

Immunogen: Recombinant protein within human SLUG aa 1-150.

Positive control: U-87 MG cell lysate, SK-MEL-28 cell lysate, SK-MEL-28.

Subcellular location: Nucleus, Cytoplasm.

Database links: SwissProt: O43623 Human

Recommended Dilutions:

WB	1:1,000
IF-Cell	1:100

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

 华安生物
HUABIO
www.huabio.cn

Images

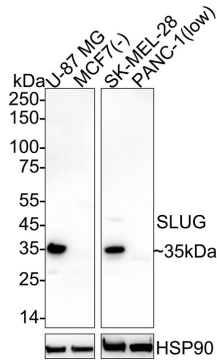


Fig1: Western blot analysis of SLUG on different lysates with Rabbit anti-SLUG antibody (HA722828) at 1/1,000 dilution.

Lane 1: U-87 MG cell lysate

Lane 2: MCF7 cell lysate (negative)

Lane 3: SK-MEL-28 cell lysate

Lane 4: PANC-1 cell lysate (low expression)

Lysates/proteins at 30 µg/Lane.

Predicted band size: 30 kDa

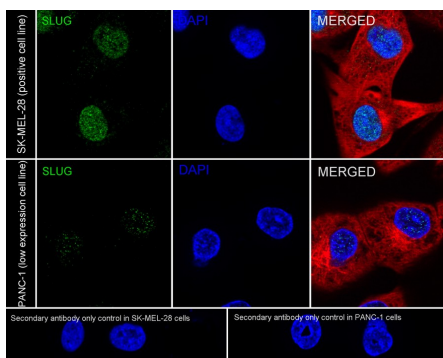
Observed band size: 35 kDa

Exposure time: 2 minutes 7 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA722828) at 1/1,000 dilution was used in 5% NFDN/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Immunocytochemistry analysis of SK-MEL-28 (positive) and PANC-1 (low expression) labeling SLUG with Rabbit anti-SLUG antibody (HA722828) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-SLUG antibody (HA722828) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn

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

Background References

1. Li W et al. Deubiquitinase USP20 promotes breast cancer metastasis by stabilizing SNAI2. *Genes Dev.* 2020 Oct
2. Jin Y et al. SNAI2 promotes the development of ovarian cancer through regulating ferroptosis. *Bioengineered.* 2022 Mar

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

 华安生物
HUAABIO
www.huabio.cn