

Slug Antibody

Slug (IN1): Neural crest transcription factor slug, Snail homolog 2

CATALOG No.:3957

BACKGROUND:

Slug, a member of the Snail family of C2H2-type zinc finger transcription factors, was initially identified to be involved in epithelial-mesenchymal transitions as well as the formation of the neural tube during vertebrate embryogenesis (1). Like Snail, Slug transcription can be induced by growth factors such as FGF, BMP, and TGF- β . Once expressed, Slug will bind E-box regions of promoters and repress transcription of genes such as E-cadherin and Claudin-1 (2). More recently, its expression in breast, esophageal, and colorectal carcinomas has been correlated with poor prognosis for survival (3). Furthermore, Slug can protect hemopoietic progenitor cells from radiation-induced apoptosis by repressing the p53-mediated transcription of Puma, a BH3-only antagonist of the anti-apoptotic members of the Bcl-2 family (4). Slug antibody has no cross-reactivity to Snail protein.

SOURCE:

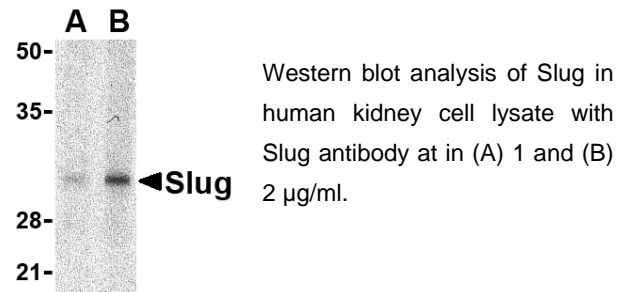
Rabbit polyclonal Slug antibody was raised against a 14 amino acid peptide from near the center of human Slug (GenBank accession no. O43623).

APPLICATION:

Slug antibody can be used for detection of Slug by Western blot at 1 to 2 μ g/ml. (Optimal dilution should be determined by user.) Human kidney tissue lysate can be used as positive control. Slug antibody is human and mouse reactive. **For research use only.**

STORAGE:

Slug antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



RELATED PRODUCTS:

- Blocking Peptide, Catalog No. **3957P**.
- Human Kidney Cell Lysate, Catalog No. **1305**.
- Slug Antibody (IN2), Catalog No. **3959**.
- PUMA Antibody (CT), Catalog No. **3041**.
- Bcl-2 Antibody (NT), Catalog No. **3335**.

REFERENCES:

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- Martinez-Estrada OM, Culleres A, Soriano FX, et al. The transcription factors Slug and Snail act as repressors of Claudin-1 expression in epithelial cells. *Biochim J.* 2006; 394:449-57.
- Shioiri M, Shida T, Koda K, et al. Slug expression is an independent prognostic parameter for poor survival in colorectal carcinoma patients. *Br. J. Cancer* 2006; 94:1816-22.
- Wu WS, Heinrichs S, Xu D, et al. Slug antagonizes p53-mediated apoptosis of hematopoietic progenitors by repressing puma. *Cell* 2005; 123:641-53.

(06-01D)