

NPRL2 (h): 293T Lysate: sc-116608

BACKGROUND

NPRL2, also known as TUSC4 (tumor suppressor candidate 4), is a 380 amino acid protein that contains a bipartite nuclear localization signal and a granulin protein-binding domain. It is highly expressed in skeletal muscle, followed by brain, liver and pancreas, with lower expression in lung, kidney, placenta and heart. NPRL2 is also expressed in most lung cancer cell lines and may be involved in tumor suppression. NPRL2 may play a role in mismatch repair, cell cycle checkpoint signaling and activation of apoptotic pathways. It may also enhance the therapeutic efficacy of chemotherapy drugs such as *cis*-platin by resensitizing patients resistant to cisplatin treatment. The gene encoding NPRL2 is conserved between species and is expressed as two isoforms due to alternative splicing events.

REFERENCES

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STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

CHROMOSOMAL LOCATION

Genetic locus: NPRL2 (human) mapping to 3p21.31.

PRODUCT

NPRL2 (h): 293T Lysate represents a lysate of human NPRL2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

NPRL2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive NPRL2 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

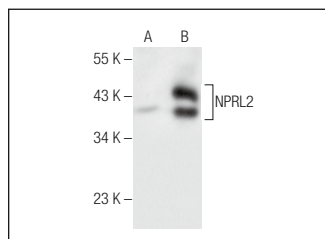
NPRL2 (F-3): sc-376986 is recommended as a positive control antibody for Western Blot analysis of enhanced human NPRL2 expression in NPRL2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

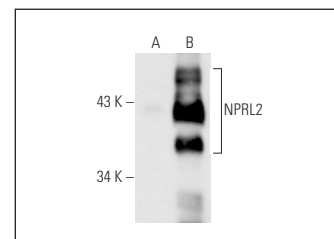
To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



NPRL2 (F-3): sc-376986. Western blot analysis of NPRL2 expression in non-transfected: sc-117752 (A) and human NPRL2 transfected: sc-116608 (B) 293T whole cell lysates.



NPRL2 (H-8): sc-166969. Western blot analysis of NPRL2 expression in non-transfected: sc-117752 (A) and human NPRL2 transfected: sc-116608 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.