

# NPRL2 (H-300): sc-292095

## 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 cisplatin 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.

## CHROMOSOMAL LOCATION

Genetic locus: NPRL2 (human) mapping to 3p21.31; Nprl2 (mouse) mapping to 9 F1.

## SOURCE

NPRL2 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of NPRL2 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

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

## APPLICATIONS

NPRL2 (H-300) is recommended for detection of NPRL2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

NPRL2 (H-300) is also recommended for detection of NPRL2 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for NPRL2 siRNA (h): sc-62699, NPRL2 siRNA (m): sc-62700, NPRL2 shRNA Plasmid (h): sc-62699-SH, NPRL2 shRNA Plasmid (m): sc-62700-SH, NPRL2 shRNA (h) Lentiviral Particles: sc-62699-V and NPRL2 shRNA (m) Lentiviral Particles: sc-62700-V.

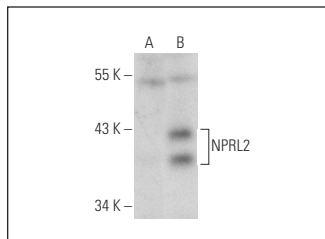
Molecular Weight of NPRL2: 44 kDa.

Positive Controls: NPRL2 (h2): 293T Lysate: sc-372771, rat lung extract: sc-2396 or MIA PaCa-2 cell lysate: sc-2285.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



NPRL2 (H-300): sc-292095. Western blot analysis of NPRL2 expression in non-transfected: sc-117752 (A) and human NPRL2 transfected: sc-372771 (B) 293T whole cell lysates.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **NPRL2 (F-3): sc-376986** or **NPRL2 (H-8): sc-166969**, our highly recommended monoclonal alternatives to NPRL2 (H-300).