PNO1 (D-14): sc-133263



The Power to Question

BACKGROUND

PNO1 (partner of NOB1), also known as KHRBP1, is a 252 amino acid protein that localizes to the nucleolus and contains one KH domain. Expressed in a variety of tissues, including kidney, lung, liver and spleen, with lower levels present in brain, heart, colon and skeletal muscle, PNO1 may play a role in RNA binding events during transcription or translation. The gene encoding PNO1 maps to human chromosome 2, which houses over 1,400 genes and comprises nearly 8% of the human genome. Harlequin icthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene, while the lipid metabolic disorder sitosterolemia is associated with defects in the ABCG5 and ABCG8 genes. Additionally, an extremely rare recessive genetic disorder, Alström syndrome, is caused by mutations in the ALMS1 gene, which maps to chromosome 2.

REFERENCES

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- 3. Zhang, Y., et al. 2005. Cloning, expression and characterization of the human NOB1 gene. Mol. Biol. Rep. 32: 185-189.
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CHROMOSOMAL LOCATION

Genetic locus: PNO1 (human) mapping to 2p14; Pno1 (mouse) mapping to 11 A2.

SOURCE

PNO1 (D-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of PNO1 of human origin.

PRODUCT

Each vial contains 100 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-133263 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

PNO1 (D-14) is recommended for detection of PNO1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

Suitable for use as control antibody for PNO1 siRNA (h): sc-94365, PNO1 siRNA (m): sc-152359, PNO1 shRNA Plasmid (h): sc-94365-SH, PNO1 shRNA Plasmid (m): sc-152359-SH, PNO1 shRNA (h) Lentiviral Particles: sc-94365-V and PNO1 shRNA (m) Lentiviral Particles: sc-152359-V.

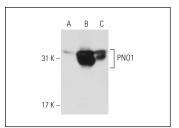
Molecular Weight of PNO1: 35 kDa.

Positive Controls: PNO1 (m): 293T Lysate: sc-125837 or K-562 whole cell lysate: sc-2203.

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



PNO1 (D-14): sc-133263. Western blot analysis of PNO1 expression in non-transfected 293T: sc-117752 (A), mouse PNO1 transfected 293T: sc-125837 (B) and K-562 (C) whole cell lysates.

STORAGE

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



Try PN01 (G-7): sc-514727 or PN01 (A-3): sc-514905, our highly recommended monoclonal alternatives to PN01 (D-14).