

p68 RNA Helicase (N-14): sc-26043

BACKGROUND

p68 RNA Helicase is a nuclear protein that exhibits RNA-dependent ATPase activity. Phosphorylation by protein kinase C inhibits p68 RNA Helicase activity. p68 RNA Helicase appears to play a role in organ differentiation during development. Furthermore, p68 RNA Helicase is expressed in early neural development and in various mesodermal tissues in a number of different chordate embryos. At the cellular level, the expression levels of p68 RNA Helicase increases in serum-induced quiescent cell lines. p68 RNA Helicase may function as a coactivator for estrogen receptor α . Additionally, p68 RNA Helicase associates with transcriptional coactivators CBP and p300. p68 RNA Helicase localizes to the nucleus under normal conditions. During late telophase, p68 RNA Helicase and Fibrillarin co-localize to nascent nucleoli. p68 RNA Helicase may function as a heterodimer with p72 RNA Helicase.

REFERENCES

- Hirling, H., Scheffner, M., Restle, T. and Stahl, H. 1989. RNA Helicase activity associated with the human p68 protein. *Nature* 339: 562-564.
- Buelt, M.K., Glidden, B.J. and Storm, D.R. 1994. Regulation of p68 RNA Helicase by calmodulin and protein kinase C. *J. Biol. Chem.* 269: 29367-29370.
- Stevenson, R.J., Hamilton, S.J., MacCallum, D.E., Hall, P.A. and Fuller-Pace, F.V. 1998. Expression of the "dead box" RNA Helicase p68 is developmentally and growth regulated and correlates with organ differentiation/maturation in the fetus. *J. Pathol.* 184: 351-359.
- Endoh, H., Maruyama, K., Masuhiro, Y., Kobayashi, Y., Goto, M., Tai, H., Yanagisawa, J., Metzger, D., Hashimoto, S. and Kato, S. 1999. Purification and identification of p68 RNA Helicase acting as a transcriptional coactivator specific for the activation function 1 of human estrogen receptor α . *Mol. Cell. Biol.* 19: 5363-5372.

CHROMOSOMAL LOCATION

Genetic locus: DDX5 (human) mapping to 17q23.3; Ddx5 (mouse) mapping to 11 E1.

SOURCE

p68 RNA Helicase (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of p68 RNA Helicase of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-26043 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

p68 RNA Helicase (N-14) is recommended for detection of p68 RNA Helicase of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

p68 RNA Helicase (N-14) is also recommended for detection of p68 RNA Helicase in additional species, including equine, canine and bovine.

Suitable for use as control antibody for p68 RNA Helicase siRNA (h): sc-37141, p68 RNA Helicase siRNA (m): sc-37142, p68 RNA Helicase shRNA Plasmid (h): sc-37141-SH, p68 RNA Helicase shRNA Plasmid (m): sc-37142-SH, p68 RNA Helicase shRNA (h) Lentiviral Particles: sc-37141-V and p68 RNA Helicase shRNA (m) Lentiviral Particles: sc-37142-V.

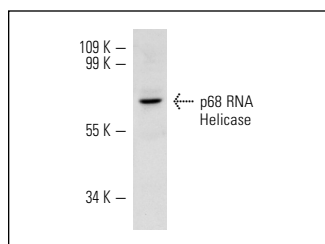
Molecular Weight of p68 RNA Helicase: 68 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132, A-431 nuclear extract: sc-2122 or NIH/3T3 nuclear extract: sc-2138.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



p68 RNA Helicase (N-14): sc-26043. Western blot analysis of p68 RNA Helicase expression in Jurkat nuclear extract.

RESEARCH USE

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

MONOS
Satisfaction
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Try **p68 RNA Helicase (D-7): sc-365164** or **p68 RNA Helicase (A-5): sc-166167**, our highly recommended monoclonal alternatives to p68 RNA Helicase (N-14).