

p68 RNA Helicase (C-20): sc-26045

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 alpha. 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 colocalize to nascent nucleoli. p68 RNA Helicase may function as a heterodimer with p72 RNA Helicase.

REFERENCES

- Hirling, H., et al. 1989. RNA helicase activity associated with the human p68 protein. *Nature* 339: 562-564.
- Buelt, M.K., et al. 1994. Regulation of p68 RNA Helicase by calmodulin and protein kinase C. *J. Biol. Chem.* 269: 29367-29370.
- Stevenson, R.J., et al. 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., et al. 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 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-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-26045 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.

RESEARCH USE

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

APPLICATIONS

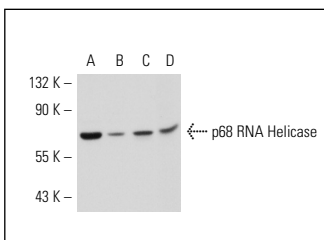
p68 RNA Helicase (C-20) is recommended for detection of p68 RNA Helicase of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 (C-20) 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.

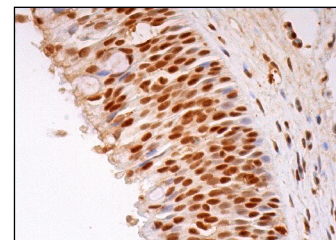
Molecular Weight of p68 RNA Helicase: 68 kDa.

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

DATA



p68 RNA Helicase (C-20): sc-26045. Western blot analysis of p68 RNA Helicase expression in Jurkat (A), A-431 (B) and NIH/3T3 (C) nuclear extracts and mouse embryo tissue extract (D).



Pim-1 (E-16): sc-26375. Immunoperoxidase staining of formalin fixed, paraffin-embedded human nasopharynx tissue showing nuclear staining of respiratory epithelial cells.

SELECT PRODUCT CITATIONS

- Clark, E.L., et al. 2008. The RNA helicase p68 is a novel androgen receptor coactivator involved in splicing and is overexpressed in prostate cancer. *Cancer Res.* 68: 7938-7946.

PROTOCOLS

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



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 (C-20).