

p68 RNA Helicase (H-144): sc-32858

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 increase 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.
- Seufert, D.W., Kos, R., Erickson, C.A. and Swalla, B.J. 2000. p68, a DEAD box RNA helicase, is expressed in chordate embryo neural and mesodermal tissues. *J. Exp. Zool.* 288: 193-204.

CHROMOSOMAL LOCATION

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

SOURCE

p68 RNA Helicase (H-144) is a rabbit polyclonal antibody raised against amino acids 471-614 mapping at 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.

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 (H-144) 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).

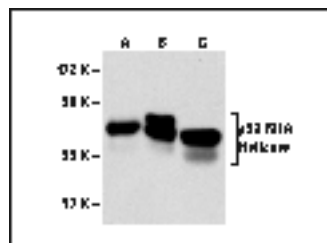
p68 RNA Helicase (H-144) is also recommended for detection of p68 RNA Helicase in additional species, including equine, canine and bovine.

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.

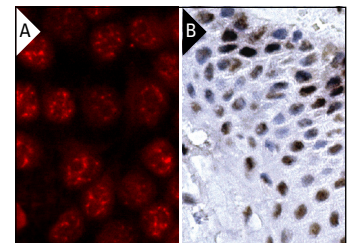
Molecular Weight of p68 RNA Helicase: 68 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, p68 RNA Helicase (h2): 293T Lysate: sc-175254 or NIH/3T3 nuclear extract: sc-2138.

DATA



p68 RNA Helicase (H-144): sc-32858. Western blot analysis of p68 RNA Helicase expression in immunoprecipitated 293T: sc-17792 (A), human p68 RNA Helicase immunoprecipitated from 293T: sc-175254 (E) and Jurkat (G) whole cell lysates.



p68 RNA Helicase (H-144): sc-32858. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human cervix tissue showing nuclear staining of squamous epithelial cells (B).

SELECT PRODUCT CITATIONS

- Fujita, T. and Fujii, H. 2011. Direct identification of insulator components by insertional chromatin immunoprecipitation. *PLoS ONE* 6: e26109.

RESEARCH USE

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


 MONOS
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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 (H-144).