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 co-activator for estrogen receptor α. Additionally, p68 RNA helicase associates with transcriptional co-activators 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


CHROMOSOMAL LOCATION

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

SOURCE

p68 RNA Helicase (D-7) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 547-579 near the C-terminus of p68 RNA Helicase of human origin.

PRODUCT

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin. Blocking peptide available for competition studies, sc-365164 P, (100 µg peptide in 0.5 ml PBS containing <0.1% sodium azide and 0.2% stabilizer protein).

STORAGE

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

APPLICATIONS

glypican-1 (A-10) is recommended for detection of glypican-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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), 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).


RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker); sc-516102-CM (dilution range: 1:1000-1:10000), 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-2210 or HeLa whole cell lysate: sc-2200. 3) Immunofluorescence: use m-IgGκ BP-RTC: sc-516104 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Hard-set Mounting Medium: sc-24941 or UltraCruz® Mounting Medium: sc-359850.

DATA

p68 RNA Helicase (D-7): sc-365164. Western blot analysis of p68 RNA Helicase expression in Hep G2 (A), SH-SYSY (B), NIH/3T3 (C) and HeLa (D) whole cell lysates. Detection reagent used: m-IgGκ BP-HRP: sc-516102.

p68 RNA Helicase (D-7): sc-365164. Immunofluorescence staining of formalin-fixed HeLa cells showing nuclear localization (A); Immunoperoxidase staining of formalin fixed, paraffin-embedded human thyroid gland tissue showing nuclear staining of glandular cells (B).

RESEARCH USE

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