

# ZNF622 (314): sc-100980



The Power to Question

## BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. ZNF622 (zinc-finger protein 622), also known as ZPR9 (zinc-finger-like protein 9), is a 477 amino acid protein that localizes to both the nucleus and the cytoplasm. Expressed in liver, spleen, lung, kidney and brain, ZNF622 is thought to activate the bound transcription factor B-Myb and, through this activation, may play a role in embryonic development. ZNF622 contains two U1-type zinc fingers and exists as either a homodimer or a heterodimer that can be phosphorylated by MELK (maternal embryonic leucine zipper kinase). Overexpression of ZNF622 may be associated with liver metastases, carcinomas and colorectal carcinomas.

## REFERENCES

- Thiesen, H.J. 1990. Multiple genes encoding zinc-finger domains are expressed in human T cells. *New Biol.* 2: 363-374.
- Huebner, K., et al. 1991. Twenty-seven non-overlapping zinc-finger cDNAs from human T cells map to nine different chromosomes with apparent clustering. *Am. J. Hum. Genet.* 48: 726-740.
- Seong, H.A., et al. 2002. Phosphorylation of a novel zinc-finger-like protein, ZPR9, by murine protein serine/threonine kinase 38 (MPK38). *Biochem. J.* 361: 597-604.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 608694. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Seong, H.A., et al. 2003. Enhancement of B-Myb transcriptional activity by ZPR9, a novel zinc-finger protein. *J. Biol. Chem.* 278: 9655-9662.
- Kleivi, K., et al. 2007. Gene expression profiles of primary colorectal carcinomas, liver metastases, and carcinomas. *Mol. Cancer* 6: 2.

## CHROMOSOMAL LOCATION

Genetic locus: ZNF622 (human) mapping to 5p15.1; Zfp622 (mouse) mapping to 15 B1.

## SOURCE

ZNF622 (314) is a mouse monoclonal antibody raised against recombinant ZNF622 of human origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> kappa light chain 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

## APPLICATIONS

ZNF622 (314) is recommended for detection of ZNF622 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ZNF622 siRNA (h): sc-91718, ZNF622 siRNA (m): sc-155766, ZNF622 shRNA Plasmid (h): sc-91718-SH, ZNF622 shRNA Plasmid (m): sc-155766-SH, ZNF622 shRNA (h) Lentiviral Particles: sc-91718-V and ZNF622 shRNA (m) Lentiviral Particles: sc-155766-V.

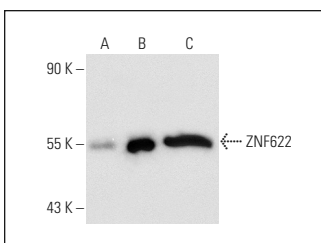
Molecular Weight of ZNF622: 52 kDa.

Positive Controls: ZNF622 (m): 293T Lysate: sc-124806, HeLa nuclear extract: sc-2120 or HeLa whole cell lysate: sc-2200.

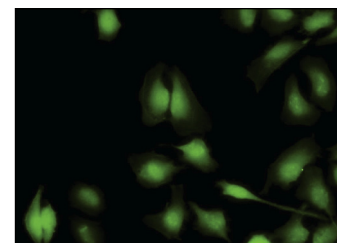
## RECOMMENDED SUPPORT REAGENTS

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, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



ZNF622 (314): sc-100980. Western blot analysis of ZNF622 expression in non-transfected 293T: sc-117752 (A), mouse ZNF622 transfected 293T: sc-124806 (B) and HeLa (C) whole cell lysates.



ZNF622 (314): sc-100980. Immunofluorescence staining of paraformaldehyde-fixed HeLa cells showing nuclear and cytoplasmic localization.

## SELECT PRODUCT CITATIONS

- Wandrey, F., et al. 2015. The NF45/NF90 heterodimer contributes to the biogenesis of 60S ribosomal subunits and influences nucleolar morphology. *Mol. Cell. Biol.* 35: 3491-3503.

## RESEARCH USE

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