ZNF207 (N-14): sc-109179



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. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. ZNF207 (zinc-finger protein 207) is a 478 amino acid protein that localizes to the nucleus and contains 2 C_2H_2 -type zinc fingers. Expressed ubiquitously, ZNF207 may function as a transcription factor. Three isoforms of ZNF207 are expressed due to alternative splicing events.

REFERENCES

- Rousseau-Merck, M.F., et al. 1994. Chromosomal localization of 9 KOX zinc-finger genes: physical linkages suggest clustering of KOX genes on chromosomes 12, 16, and 19. Hum. Genet. 92: 583-587.
- Pahl, P.M., et al. 1998. ZNF207, a ubiquitously expressed zinc-finger gene on chromosome 6p21.3. Genomics 53: 410-412.
- 3. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 603428. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- 4. Sun, Y., et al. 2003. The KRAB domain of zinc-finger gene ZNF268: a potential transcriptional repressor. IUBMB Life 55: 127-131.
- Rousseau-Merck, M.F., et al. 2003. The KOX zinc-finger genes: genome wide mapping of 368 ZNF PAC clones with zinc-finger gene clusters predominantly in 23 chromosomal loci are confirmed by human sequences annotated in EnsEMBL. Cytogenet. Genome Res. 98: 147-153.
- Nakamura, M., et al. 2004. A novel subfamily of zinc-finger genes involved in embryonic development. J. Cell. Biochem. 93: 887-895.
- Englbrecht, C.C., et al. 2004. Conservation, diversification and expansion of C₂H₂ zinc finger proteins in the *Arabidopsis thaliana* genome. BMC Genomics 5: 39.
- 8. O'Geen, H., et al. 2007. Genome-wide analysis of KAP1 binding suggests autoregulation of KRAB-ZNFs. PLoS Genet. 3: e89.

CHROMOSOMAL LOCATION

Genetic locus: ZNF207 (human) mapping to 17q11.2; Zfp207 (mouse) mapping to 11 B5.

SOURCE

ZNF207 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ZNF207 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-109179 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNF207 (N-14) is recommended for detection of ZNF207 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); non cross-reactive with other ZNF family members.

ZNF207 (N-14) is also recommended for detection of ZNF207 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ZNF207 siRNA (h): sc-93847, ZNF207 siRNA (m): sc-155654, ZNF207 shRNA Plasmid (h): sc-93847-SH, ZNF207 shRNA Plasmid (m): sc-155654-SH, ZNF207 shRNA (h) Lentiviral Particles: sc-93847-V and ZNF207 shRNA (m) Lentiviral Particles: sc-155654-V.

Molecular Weight of ZNF207: 51 kDa.

Positive Controls: HeLa nuclear extract: sc-2120 or Hep G2 cell lysate: sc-2227.

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.

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.

PROTOCOLS

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

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com