ZNF618 (B-23): sc-134203



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. ZNF618 (zinc finger protein 618), also known as NEDD10, is a 954 amino acid nuclear protein that belongs to the Krüppel C_2H_2 -type zinc-finger protein family and may play a role in transcriptional regulation. Containing four C_2H_2 -type zinc fingers, ZNF618 exists as three alternatively spliced isoforms that are encoded by a gene located on human chromosome 9q32.

REFERENCES

- Witzgall, R., O'Leary, E., Leaf, A., Onaldi, D. and Bonventre, J.V. 1994. The Krüppel-associated box-A (KRAB-A) domain of zinc finger proteins mediates transcriptional repression. Proc. Natl. Acad. Sci. USA 91: 4514-4518.
- 2. Mark, C., Abrink, M. and Hellman, L. 1999. Comparative analysis of KRAB zinc finger proteins in rodents and man: evidence for several evolutionarily distinct subfamilies of KRAB zinc finger genes. DNA Cell Biol. 18: 381-396.
- Williams, A.J., Blacklow, S.C. and Collins, T. 1999. The zinc finger-associated SCAN box is a conserved oligomerization domain. Mol. Cell. Biol. 19: 8526-8535.
- 4. Peng, H., Begg, G.E., Harper, S.L., Friedman, J.R., Speicher, D.W. and Rauscher, F.J. 2000. Biochemical analysis of the Kruppel-associated box (KRAB) transcriptional repression domain. J. Biol. Chem. 275: 18000-18010.
- Urrutia, R. 2003. KRAB-containing zinc-finger repressor proteins. Genome Biol. 4: 231.
- Huntley, S., Baggott, D.M., Hamilton, A.T., Tran-Gyamfi, M., Yang, S., Kim, J., Gordon, L., Branscomb, E. and Stubbs, L. 2006. A comprehensive catalog of human KRAB-associated zinc finger genes: insights into the evolutionary history of a large family of transcriptional repressors. Genome Res. 16: 669-677.
- Tian, C.Y., Zhang, L.Q. and He, F.C. 2006. Progress in the study of KRAB zinc finger protein. Yi Chuan 28: 1451-1456.

CHROMOSOMAL LOCATION

Genetic locus: ZNF618 (human) mapping to 9q32.

SOURCE

ZNF618 (B-23) is an affinity purified rabbit polyclonal antibody raised against synthetic ZNF618 peptide of human origin.

PRODUCT

Each vial contains 50 μg IgG in 500 μl PBS with <0.1% sodium azide, 0.1% gelatin and <0.02% sucrose.

RESEARCH USE

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

APPLICATIONS

ZNF618 (B-23) is recommended for detection of ZNF618 of human and rat 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ZNF618 siRNA (h): sc-92635, ZNF618 shRNA Plasmid (h): sc-92635-SH and ZNF618 shRNA (h) Lentiviral Particles: sc-92635-V.

Molecular Weight of ZNF618 isoforms: 105/96/31 kDa.

Positive Controls: NTERA-2 cl.D1 whole cell lysate: sc-364181.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

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 or our catalog for detailed protocols and support products.

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