SANTA CRUZ BIOTECHNOLOGY, INC.

HSZFP36 (D-23): sc-133683

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 Kruppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. HSZFP36, also known as ZNF823 (zinc-finger protein 823) or ZFP36, is a 610 amino acid member of the Kruppel C_2H_2-type zinc-finger protein family and is thought be involved in transcriptional regulation. Localized to the nucleus, HSZFP36 contains one KRAB domain and 16 C_2H_2-type zinc fingers through which it may convey DNA, RNA and protein binding capabilities.

REFERENCES

1. Kato, N., et al. 1990. Human proviral mRNAs downregulated in choriocarcinoma encode a zinc-finger protein related to Kruppel. Mol. Cell. Biol. 10: 4401-4405.
2. Thiesen, H.J. 1990. Multiple genes encoding zinc finger domains are expressed in human T cells. New Biol. 2: 363-374.
3. Huebner, K., et al. 1991. Twenty-seven nonoverlapping zinc-finger cDNAs from human T cells map to nine different chromosomes with apparent clustering. Am. J. Hum. Genet. 48: 726-740.
4. 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.
5. Williams, A.J., et al. 1999. The zinc finger-associated SCAN box is a conserved oligomerization domain. Mol. Cell. Biol. 19: 8526-8535.
6. 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.
7. Englbrecht, C.C., et al. 2004. Conservation, diversification and expansion of C_2H_2 zinc-finger proteins in the *Arabidopsis thaliana* genome. BMC Genomics 5: 39-39.

CHROMOSOMAL LOCATION

Genetic locus: ZNF823 (human) mapping to 19p13.2.

SOURCE

HSZFP36 (D-23) is a Protein A purified rabbit polyclonal antibody raised against synthetic HSZFP36 peptide of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

STORAGE

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

APPLICATIONS

HSZFP36 (D-23) is recommended for detection of HSZFP36 of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for HSZFP36 siRNA (h): sc-97598, HSZFP36 shRNA Plasmid (h): sc-97598-SH and HSZFP36 shRNA (h) Lentiviral Particles: sc-97598-V.

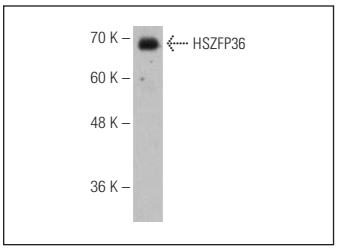
Molecular Weight of HSZFP36: 70 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

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).

DATA



HSZFP36 (D-23): sc-133683. Western blot analysis of HSZFP36 expression in Jurkat whole cell lysate.

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.