SANTA CRUZ BIOTECHNOLOGY, INC.

ZC3HAV1L (F-4): sc-514958

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

ZC3HAV1L (zinc finger CCCH-type antiviral protein 1-like) is a 296 amino acid protein that contains 2 C3H1-type zinc fingers. Existing as 2 alternatively spliced isoforms, the gene encoding ZC3HAV1L maps to human chromosome 7, which houses over 1,000 genes and comprises nearly 5% of the human genome. Chromosome 7 has been linked to Osteogenesis imperfecta, Pendred syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance. Deletions of portions of the q arm of chromosome 7 are also seen in a number of myeloid disorders including cases of acute myelogenous leukemia and myelodysplasia.

REFERENCES

1. Tsipouras, P., et al. 1983. Restriction fragment length polymorphism associated with the pro α 2(I) gene of human type I procollagen. Application to a family with an autosomal dominant form of osteogenesis imperfecta. J. Clin. Invest. 72: 1262-1267.
2. Liang, H., et al. 1998. Molecular anatomy of chromosome 7q deletions in myeloid neoplasms: evidence for multiple critical loci. Proc. Natl. Acad. Sci. USA 95: 3781-3785.
3. Iwasaki, S., et al. 2001. Long-term audiological feature in Pendred syndrome caused by PDS mutation. Arch. Otolaryngol. Head Neck Surg. 127: 705-708.
4. Osborne, L.R., et al. 2006. Williams-Beuren syndrome diagnosis using fluorescence *in situ* hybridization. Methods Mol. Med. 126: 113-128.

CHROMOSOMAL LOCATION

Genetic locus: ZC3HAV1L (human) mapping to 7q34.

SOURCE

ZC3HAV1L (F-4) is a mouse monoclonal antibody raised against amino acids 18-66 mapping near the N-terminus of ZC3HAV1L of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ZC3HAV1L (F-4) is available conjugated to agarose (sc-514958 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-514958 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-514958 PE), fluorescein (sc-514958 FITC), Alexa Fluor® 488 (sc-514958 AF488), Alexa Fluor® 546 (sc-514958 AF546), Alexa Fluor® 594 (sc-514958 AF594) or Alexa Fluor® 647 (sc-514958 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-514958 AF680) or Alexa Fluor® 790 (sc-514958 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

ZC3HAV1L (F-4) is recommended for detection of ZC3HAV1L of 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ZC3HAV1L siRNA (h): sc-89735, ZC3HAV1L shRNA Plasmid (h): sc-89735-SH and ZC3HAV1L shRNA (h) Lentiviral Particles: sc-89735-V.

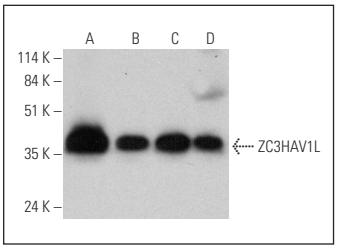
Molecular Weight of ZC3HAV1L isoforms 1/2: 33/24 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, Hep G2 cell lysate: sc-2227 or HeLa whole cell lysate: sc-2200.

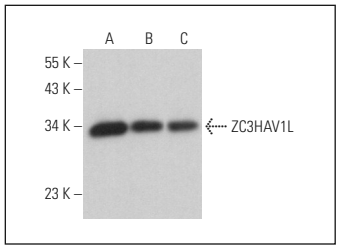
RECOMMENDED SUPPORT REAGENTS

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



ZC3HAV1L (F-4): sc-514958. Western blot analysis of ZC3HAV1L expression in Jurkat (**A**), HeLa (**B**) and Hep G2 (**C**) whole cell lysates and human uterus tissue extract (**D**).



ZC3HAV1L (F-4): sc-514958. Western blot analysis of ZC3HAV1L expression in Jurkat (**A**), MEG-01 (**B**) and JAR (**C**) whole cell lysates.

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 for detailed protocols and support products.