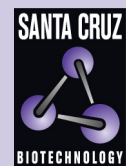


ZNF499 (G-18): sc-69442



The Power to Question

BACKGROUND

The BTB (broad-complex, Tramtrack and Bric a brac) domain, also known as the POZ (POxvirus and zinc finger) domain, is an N-terminal homodimerization domain that contains multiple copies of kelch repeats and/or C₂H₂-type zinc fingers. Proteins that contain BTB domains are thought to be involved in transcriptional regulation via control of chromatin structure and function. ZNF499 (zinc-finger protein 499), also known as ZBTB45 (zinc-finger and BTB domain containing 45), is a 511 amino acid nuclear protein that contains one BTB domain and 4 C₂H₂-type zinc fingers and is thought to be involved in transcriptional regulation events. The gene encoding ZNF499 maps to human chromosome 19, which consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family and Fc receptors (Fc Rs).

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CHROMOSOMAL LOCATION

Genetic locus: ZBTB45 (human) mapping to 19q13.43; Zbtb45 (mouse) mapping to 7 A1.

SOURCE

ZNF499 (G-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZNF499 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-69442 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNF499 (G-18) is recommended for detection of ZNF499 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).

ZNF499 (G-18) is also recommended for detection of ZNF499 in additional species, including equine and canine.

Suitable for use as control antibody for ZNF499 siRNA (h): sc-76988, ZNF499 siRNA (m): sc-76989, ZNF499 shRNA Plasmid (h): sc-76988-SH, ZNF499 shRNA Plasmid (m): sc-76989-SH, ZNF499 shRNA (h) Lentiviral Particles: sc-76988-V and ZNF499 shRNA (m) Lentiviral Particles: sc-76989-V.

Molecular Weight of ZNF499: 54 kDa.

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.