

ZCCHC12/18 (Y-15): sc-169846

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. ZCCHC12 (zinc finger, CCHC domain containing 12), also known as SIZN1, and ZCCHC18 (zinc finger, CCHC domain containing 18), both members of the ZCCHC12 family, are highly homologous proteins that contain approximately 400 amino acids and contain one CCHC-type zinc finger each. ZCCHC12 is a transcriptional coactivator of the bone morphogenetic protein (BMP) signaling pathway, possibly contributing to the enhancement of cholinergic-neuron specific gene expression. The genes encoding ZCCGC12 and ZCCHC18 map to the human X chromosome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZCCHC12 (human) mapping to Xq24, ZCCHC18 (human) mapping to Xq22.2; Zcchc12 (mouse) mapping to X A3.3, Zcchc18 (mouse) mapping to X F1.

SOURCE

ZCCHC12/18 (Y-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZCCHC12 of human origin.

RESEARCH USE

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

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-169846 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZCCHC12/18 (Y-15) is recommended for detection of ZCCHC12 of human, mouse and rat origin and ZCCHC18 of human and mouse 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).

ZCCHC12/18 (Y-15) is also recommended for detection of ZCCHC12 and ZCCHC18 in additional species, including equine, canine, bovine and porcine.

Molecular Weight of ZCCHC12/18: 45 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.

PROTOCOLS

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