

ZNF592 (C-20): sc-244809

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. ZNF592 (zinc finger protein 592), also known as CAMOS or SCAR5, is a 1,267 amino acid protein that contains 13 C₂H₂-type zinc fingers and belongs to the Krüppel C₂H₂-type zinc-finger protein family. Localizing to the nucleus, ZNF592 is widely expressed, with high levels of expression found in skeletal muscle, fetal tissue, and across the central nervous system. ZNF592 becomes phosphorylated upon DNA damage, and defects to ZNF592 have been linked to spinocerebellar ataxia autosomal recessive type 5 (SCAR5). SCAR5 is characterized by poor coordination, developmental delay, speech defects and cerebellar spastic ataxia.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNF592 (human) mapping to 15q25.3.

SOURCE

ZNF592 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of ZNF592 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-244809 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNF592 (C-20) is recommended for detection of ZNF592 of 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); non cross-reactive with other ZNF family members.

Suitable for use as control antibody for ZNF592 siRNA (h): sc-90297, ZNF592 shRNA Plasmid (h): sc-90297-SH and ZNF592 shRNA (h) Lentiviral Particles: sc-90297-V.

Molecular Weight of ZNF592: 138 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.