

# ZDHHC23 (E-16): sc-99732

## 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. ZDHHC23 (zinc finger, DHHC domain containing 23), also known as NIDD (NOS1-interacting DHHC domain-containing protein with dendritic mRNA), is a 409 amino acid multi-pass membrane protein that contains one DHHC-type zinc finger and is thought to function as a palmitoyl-transferase, catalyzing the transformation of palmitoyl-CoA and a cysteine-conjugated protein to an S-palmitoyl protein and free CoA. ZDHHC23 may play a role in NOS1 regulation and targets the synaptic membrane. By regulating the enzymatic activity of NOS1, ZDHHC23 may effect different pathological conditions including nerve regeneration, neuron loss or survival and pain processing.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ZDHHC23 (human) mapping to 3q13.31; Zdhhc23 (mouse) mapping to 16 B4.

## SOURCE

ZDHHC23 (E-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ZDHHC23 of human origin.

## RESEARCH USE

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

## PRODUCT

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

Blocking peptide available for competition studies, sc-99732 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ZDHHC23 (E-16) is recommended for detection of ZDHHC23 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); non cross-reactive with other ZDHHC family members.

ZDHHC23 (E-16) is also recommended for detection of ZDHHC23 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ZDHHC23 siRNA (h): sc-77882, ZDHHC23 siRNA (m): sc-155501, ZDHHC23 shRNA Plasmid (h): sc-77882-SH, ZDHHC23 shRNA Plasmid (m): sc-155501-SH, ZDHHC23 shRNA (h) Lentiviral Particles: sc-77882-V and ZDHHC23 shRNA (m) Lentiviral Particles: sc-155501-V.

Molecular Weight of ZDHHC23: 46 kDa.

## 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) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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](http://www.scbt.com) or our catalog for detailed protocols and support products.