

GODZ (N-20): sc-79961

BACKGROUND

Golgi-specific DHHC (Asp-His-His-Cys) zinc finger protein (GODZ), also known as, Palmitoyltransferase ZDHHC3 or zinc finger protein 373, is a 327 amino acid protein member of the DHHC palmitoyltransferase family. Localized to the Golgi apparatus membrane, GODZ contains one DHHC-type zinc finger, which is necessary for its palmitoyltransferase activity. GODZ has been implicated in the palmitoylation and regulated trafficking of diverse substrates that function various inhibitory and excitatory synapses. Specifically, it palmitoylates the γ subunit two of GABA_A receptors, which leads to normal synaptic GABAergic inhibitory function. GODZ also palmitoylates glutamate receptors GRIA1 and GRIA2, which leads to their retention in Golgi. Two isoforms of GODZ exist as a result of alternative splicing events.

CHROMOSOMAL LOCATION

Genetic locus: ZDHHC3 (human) mapping to 3p21.31; Zdhhc3 (mouse) mapping to 9 F4.

SOURCE

GODZ (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal cytoplasmic domain of GODZ of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-79961 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

GODZ (N-20) is recommended for detection of GODZ of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

GODZ (N-20) is also recommended for detection of GODZ in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for GODZ siRNA (h): sc-75158, GODZ siRNA (m): sc-75159, GODZ shRNA Plasmid (h): sc-75158-SH, GODZ shRNA Plasmid (m): sc-75159-SH, GODZ shRNA (h) Lentiviral Particles: sc-75158-V and GODZ shRNA (m) Lentiviral Particles: sc-75159-V.

Molecular Weight (predicted) of GODZ: 37 kDa.

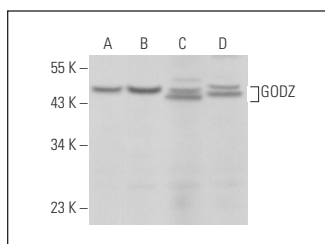
Molecular Weight (observed) of GODZ: 49 kDa.

Positive Controls: mouse cerebellum extract: sc-2403, U-87 MG cell lysate: sc-2411 or SK-N-MC cell lysate: sc-2237.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



GODZ (N-20): sc-79961. Western blot analysis of GODZ expression in SK-N-MC (A) and U-87 MG (B) whole cell lysates and mouse cerebellum (C) and mouse brain (D) tissue extracts.

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.



Try **GODZ (A-10): sc-377378** or **GODZ (H-2): sc-514702**, our highly recommended monoclonal alternatives to GODZ (N-20).