BACKGROUND

The Neurogenin family of proteins belongs to the basic helix-loop-helix (bHLH) superfamily and consists of Neurogenin 1, Neurogenin 2 and Neurogenin 3 (also designated ngn3). bHLH members are transcriptional regulators that determine cell fate. During mouse neurogenesis, Neurogenin 1 and Neurogenin 2 are expressed in distinct progenitor populations in the central and peripheral nervous systems. Targeted mutation analyses have shown that Neurogenin 1 is essential for the determination of neuronal precursors for proximal cranial sensory ganglia and that Neurogenin 2 is essential for the determination of precursors for epibranchial placode-derived sensory neurons.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: NEUROG2 (human) mapping to 4q25; Neurog2 (mouse) mapping to 3 G2.

SOURCE

Neurogenin 2 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Neurogenin 2 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-19233 P, (100 µg 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.

RESEARCH USE

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

APPLICATIONS

Neurogenin 2 (C-16) is recommended for detection of Neurogenin 2 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).

Suitable for use as control antibody for Neurogenin 2 siRNA (h): sc-42077, Neurogenin 2 siRNA (m): sc-42078, Neurogenin 2 shRNA Plasmid (h): sc-42077-SH, Neurogenin 2 shRNA Plasmid (m): sc-42078-SH, Neurogenin 2 shRNA (h) Lentiviral Particles: sc-42077-V and Neurogenin 2 shRNA (m) Lentiviral Particles: sc-42078-V.

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-24941.

SELECT PRODUCT CITATIONS


PROTOCOLS

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