SANTA CRUZ BIOTECHNOLOGY, INC.

DNER (YY-7): sc-100305

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

DNER (Delta-Notch-like EGF-related receptor), also known as Delta-Notch-like EGF repeat-containing transmembrane protein, is a neuron-specific, atypical Notch ligand expressed in dendrites and cell bodies of neurons throughout the central nervous system. DNER contains ten extracellular EGF-like domains that are highly homologous to those of the Notch ligand, Delta. In the cerebellum, DNER is predominantly expressed in Purkinje cells. DNER mediates neuron-glia interaction during astrocytogenesis through a direct interaction with Notch 1 at Purkinje cell/Bergmann glia contacts. This interaction activates a Deltex-dependent Notch signaling pathway in Bergmann glia and may regulate Bergmann glial morphogenesis. DNER is crucial for the functional and morphological maturation of Bergmann glia. DNER-knockout mice are characterized by motor discoordination and cerebellum retardation in morphogenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DNER (human) mapping to 2q36.3; Dner (mouse) mapping to 1 C5.

SOURCE

DNER (YY-7) is a mouse monoclonal antibody raised against recombinant DNER of human origin.

PRODUCT

Each vial contains 100 µg IgG_3 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

DNER (YY-7) is recommended for detection of DNER of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for DNER siRNA (h): sc-106901, DNER siRNA (m): sc-143123, DNER shRNA Plasmid (h): sc-106901-SH, DNER shRNA Plasmid (m): sc-143123-SH, DNER shRNA (h) Lentiviral Particles: sc-106901-V and DNER shRNA (m) Lentiviral Particles: sc-143123-V.

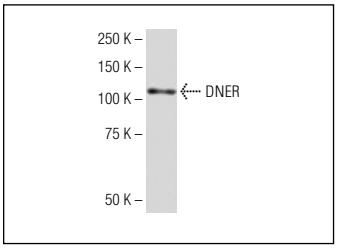
Molecular Weight of DNER: 90 kDa.

Positive Controls: PC-12 cell lysate: sc-2250.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz >Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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).

DATA



DNER (YY-7): sc-100305. Western blot analysis of DNER expression in PC-12 whole cell lysate.

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 for detailed protocols and support products.