

DNER Antibody / Delta/notch like EGF repeat containing Antibody (FY13579)

Catalog No.	Formulation	Size
FY13579	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
UniProt	Q8NFT8
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5 ug/ml
Limitations	The DNER Antibody / Delta/notch like EGF repeat containing Antibody is available for research use only.

DNER Antibody by IHC in human cerebellum. Immunohistochemistry of paraffin-embedded human cerebellum using Delta/notch like EGF repeat containing Antibody shows brown neuropil staining in the pale molecular layer beneath the densely hematoxylin-stained granule cell layer, with labeling around the Purkinje cell region. Nuclei are counterstained blue with hematoxylin. Sections underwent heat-mediated antigen retrieval in EDTA buffer at pH 8.0, blocking with 10% goat serum, and primary antibody incubation at 2 ug/mL overnight at 4°C. Detection used a peroxidase-conjugated secondary antibody and DAB chromogen.

DNER Antibody by FACS in fixed HeLa cells. Flow cytometry using Delta/notch like EGF repeat containing Antibody shows a rightward fluorescence shift of the antibody-stained population (blue) relative to the rabbit IgG isotype control (green) and unstained blank control (red). Cells were fixed with 4% paraformaldehyde, blocked with normal goat serum, and incubated with primary antibody at 1 ug per 1 x 10⁶ cells for 30 minutes at 20°C. A Fluoro488-conjugated secondary antibody was used for detection. This experiment was performed on fixed cells and does not demonstrate live-cell surface staining.

DNER Antibody by WB in rodent brain. Western blot analysis using Delta/notch like EGF repeat containing Antibody detects a band near 130 kDa in rat brain (lane 1) and mouse brain (lane 2), compared with a calculated molecular weight of approximately 78 kDa. The higher apparent molecular weight is not assigned to a specific modified form in this experiment. Reduced lysates containing 30 ug total protein per lane were resolved by 8% SDS-PAGE and transferred to nitrocellulose. The membrane was blocked with 5% nonfat milk, followed by primary antibody incubation at 0.5 ug/mL overnight at 4oC. Bound antibody was detected using an HRP-conjugated secondary antibody and chemiluminescent substrate.

DNER Antibody by IHC in human cerebellum. Immunohistochemistry of paraffin-embedded human cerebellum using Delta/notch like EGF repeat containing Antibody shows brown staining throughout the molecular layer, adjacent to the densely packed blue granule cell layer. Nuclei are counterstained blue with hematoxylin. Sections underwent heat-mediated antigen retrieval in EDTA buffer at pH 8.0, blocking with 10% goat serum, and primary antibody incubation at 2 ug/mL overnight at 4oC. Detection used a peroxidase-conjugated secondary antibody and DAB chromogen.

DNER Antibody by IHC in rat brain. Immunohistochemistry of paraffin-embedded rat brain using Delta/notch like EGF repeat containing Antibody shows brown staining in scattered neuronal cell bodies and surrounding neuropil. Nuclei are counterstained blue with hematoxylin. Sections underwent heat-mediated antigen retrieval in EDTA buffer at pH 8.0, blocking with 10% goat serum, and primary antibody incubation at 2 ug/mL overnight at 4oC. Detection used a peroxidase-conjugated secondary antibody and DAB chromogen.

Description

DNER Antibody / Delta/notch like EGF repeat containing Antibody detects DNER, a single-pass transmembrane protein containing multiple extracellular epidermal growth factor-like repeats. DNER is expressed prominently in the nervous system and has been associated with neuronal differentiation and communication between neighboring cells. Its extracellular architecture resembles features found in proteins that participate in Notch-related signaling, but DNER is distinct from canonical Delta-like Notch ligands. The presence of EGF-like repeats provides a structural basis for protein interactions at the cell surface.

During nervous system development, neurons and glial cells coordinate their differentiation through direct contact and locally acting signals. DNER has been implicated in interactions between Purkinje neurons and Bergmann glial cells in the cerebellum. Studies have connected DNER-dependent signaling with glial morphology and the organization of neuronal environments. These findings place DNER within a broader network of cell-contact-mediated regulation rather than establishing it as a universal regulator of all Notch pathways. Its intracellular tail and membrane localization also influence how DNER participates in cell signaling and trafficking. The Delta/notch like EGF repeat containing Antibody designation refers to this same protein target.

DNER has attracted additional attention as an autoantigen associated with anti-Tr antibodies in some cases of paraneoplastic cerebellar degeneration. This association links the protein to immune recognition in a particular neurological context, but does not imply that DNER itself initiates the underlying malignancy. Its biological significance spans neuronal surface organization, cerebellar cell interactions, and the molecular identity of certain autoantibody responses. NSJ Bioreagents includes DNER among targets related to nervous system development and membrane-associated signaling. A DNER Antibody provides a means of examining the molecular functions associated with DNER.

Explore related research targets in our [Neuroscience Antibodies](#) collection.

Application Notes

Investigators should determine the optimal dilution of the DNER Antibody / Delta/notch like EGF repeat containing Antibody empirically for their experimental conditions.

Immunogen

The DNER Antibody was generated using e. coli-derived human DNER recombinant protein (amino acids E146-L737).

Storage

The DNER Antibody is stable for up to one month at 4oC after reconstitution. For longer-term storage, aliquot and store at -20oC for up to six months. Do not repeatedly freeze and thaw.

Alternate Names

DNER antibody, Delta and Notch-like epidermal growth factor-related receptor antibody, delta/notch like EGF repeat containing antibody, BET antibody, UNQ262/PRO299 antibody, DNER rabbit polyclonal antibody