

NP2 (G-2): sc-365759

BACKGROUND

Long pentraxins are a family of highly conserved proteins that are expressed in the brain and central nervous system, and form multimeric complexes. Neuronal pentraxin 1 (NP1), NP2 and neuronal pentraxin receptor (NPR) are members of the long pentraxins that represent a neuronal uptake pathway that may function during synapse formation and remodeling. The NP1 gene is located on chromosome 17q25.3 and the protein product mediates the uptake of synaptic material, including the presynaptic snake venom toxin, taipoxin. NP2, whose function is unknown, is located on chromosome 7q22.1 and like NP1 contains several potential N-linked glycosylation sites. NPR is expressed on the cell membrane and can form heteropentamers with NP1 and NP2 that can be released from the cell membrane by proteolysis.

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CHROMOSOMAL LOCATION

Genetic locus: NPTX2 (human) mapping to 7q22.1; Nptx2 (mouse) mapping to 5 G2.

SOURCE

NP2 (G-2) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 12-45 near the N-terminus of NP2 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-365759 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

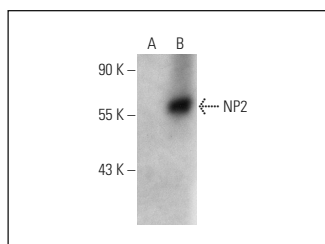
NP2 (G-2) is recommended for detection of NP2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for NP2 siRNA (h): sc-42095, NP2 siRNA (m): sc-42096, NP2 shRNA Plasmid (h): sc-42095-SH, NP2 shRNA Plasmid (m): sc-42096-SH, NP2 shRNA (h) Lentiviral Particles: sc-42095-V and NP2 shRNA (m) Lentiviral Particles: sc-42096-V.

Molecular Weight of NP2: 55 kDa.

Positive Controls: H4 cell lysate: sc-2408 or NP2 (h2): 293T Lysate: sc-115612.

DATA



NP2 (G-2): sc-365759. Western blot analysis of NP2 expression in non-transfected: sc-117752 (A) and human NP2 transfected: sc-115612 (B) 293T whole cell lysates.

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.