

NYAP2 (C-16): sc-139514

BACKGROUND

NYAP2 (Neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adapter 2) is a 653 amino acid protein that is a member of the NYAP family and activates PI3K. At the same time of PI3K activation, NYAP2 recruits the WAVE1 complex near PI3K and aids in neuronal morphogenesis by participating in cytoskeletal remodelization. NYAP2 interacts with ACOT9, PIK3R2 and ARHGAP26, as well as components of CYFIP1 and NAP125. Existing as three alternatively spliced isoforms, NYAP2 is post-translationally phosphorylated at multiple residues. The gene encoding NYAP2 maps to human chromosome 2, which encodes over 1,400 genes and comprises approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2 including harlequin ichthyosis, sitosterolemia and Alström syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NYAP2 (human) mapping to 2q36.3; 9430031J16Rik (mouse) mapping to 1 C5.

SOURCE

NYAP2 (C-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of NYAP2 of human origin.

STORAGE

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

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-139514 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NYAP2 (C-16) is recommended for detection of NYAP2 of human and mouse origin and RGD1305560 of rat origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

NYAP2 (C-16) is also recommended for detection of NYAP2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for NYAP2 siRNA (m): sc-140556, NYAP2 shRNA Plasmid (m): sc-140556-SH and NYAP2 shRNA (m) Lentiviral Particles: sc-140556-V.

Molecular Weight of NYAP2 isoforms: 17/71 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.