

Neurobeachin (A-16): sc-84530

BACKGROUND

Neurobeachin, also known as NBEA, BCL8B or lysosomal-trafficking regulator 2 (LYST2), is a 2,946 amino acid A-kinase anchor protein that localizes to the cytoplasm and peripheral membrane, and belongs to the WD repeat Neurobeachin family. By binding the type II regulatory subunits of protein kinase A (PKA), Neurobeachin is able to anchor PKA to the membrane or cytoskeletal and organelle-associated proteins. Neurobeachin is expressed predominantly in brain, with moderate levels found in thymus, prostate, spleen, ovary and testis. Lower levels have been found in kidney, heart, skeletal muscle, intestine and pancreas. Neurobeachin exists as two alternatively spliced isoforms and contains one BEACH domain and five WD repeats. Mutations of the gene encoding Neurobeachin is associated with idiopathic autism and is disrupted in patients with multiple myeloma.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NBEA (human) mapping to 13q13.3; Nbea (mouse) mapping to 3 C.

SOURCE

Neurobeachin (A-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of Neurobeachin of human origin.

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-84530 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Neurobeachin (A-16) is recommended for detection of Neurobeachin 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); non cross-reactive with isoforms 1 and 2.

Neurobeachin (A-16) is also recommended for detection of Neurobeachin in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Neurobeachin siRNA (h): sc-75907, Neurobeachin siRNA (m): sc-149931, Neurobeachin shRNA Plasmid (h): sc-75907-SH, Neurobeachin shRNA Plasmid (m): sc-149931-SH, Neurobeachin shRNA (h) Lentiviral Particles: sc-75907-V and Neurobeachin shRNA (m) Lentiviral Particles: sc-149931-V.

Molecular Weight of Neurobeachin: 328 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.

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 or our catalog for detailed protocols and support products.