BEAN (N-14): sc-245033

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BIOTECHNOLOGY

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BACKGROUND

BEAN, also known as BEAN1, is a 259 amino acid protein that localizes to membrane. The BEAN gene contains seven exons, which are subject to extensive alternative splicing with two known isoforms. A single-pass membrane protein, BEAN contains two PY motifs and a potential transmembrane domain. BEAN is one of several proteins that interact with NEDD4, which is developmentally regulated and is highly expressed in embryonic tissues. NEDD4 is a member of a growing family of ubiquitin-protein ligases that consist of a lipid-binding domain, two to four WW domains and a C-terminal ubiquitin-protein ligase domain. Mutations in BEAN are associated with spinocerebellar ataxia type 31 (SCA31), which is an adult-onset autosomal-dominant neurodegenerative disorder showing progressive cerebellar ataxia mainly affecting Purkinje cells. The BEAN gene maps to human chromosome 16p21.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: BEAN1 (human) mapping to 16q21; Bean1 (mouse) mapping to 8 D3.

SOURCE

BEAN (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of BEAN of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-245033 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BEAN (N-14) is recommended for detection of BEAN 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).

BEAN (N-14) is also recommended for detection of BEAN in additional species, including equine and canine.

Suitable for use as control antibody for BEAN siRNA (m): sc-141683, BEAN shRNA Plasmid (m): sc-141683-SH and BEAN shRNA (m) Lentiviral Particles: sc-141683-V.

Molecular Weight of BEAN: 29 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (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.