

Brn-5 (L-16): sc-79880

BACKGROUND

The Brn family of transcription factors are found in a highly restricted subset of neurons and are critical in the early embryonic development of the central nervous system. Brn-1 and Brn-2 are class III POU (Pit-Oct-Unc) domain proteins, Brn-3 is a class IV POU domain protein and Brn-5 is a class VI POU domain protein. Brn-5 (brain-5), also known as POU6F1, MPOU or TCFB1, is a widely expressed protein, but during embryogenesis is exclusively found in the developing brain and spinal cord. As is characteristic of Brn family members, Brn-5 contains two DNA-binding domains, namely the POU-specific domain and the POU homeodomain, which each contain an HTH (helix-turn-helix) motif. Brn-5 binds to CRH (corticotrophin-releasing hormone) elements with high affinity and is capable of both enhancing Prolactin gene expression and activating Pit-1 expression.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: POU6F1 (human) mapping to 12q13.13; Pou6f1 (mouse) mapping to 15 F1.

SOURCE

Brn-5 (L-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Brn-5 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-79880 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-79880 X, 200 µg/0.1 ml.

APPLICATIONS

Brn-5 (L-16) is recommended for detection of Brn-5 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).

Brn-5 (L-16) is also recommended for detection of Brn-5 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for Brn-5 siRNA (h): sc-72664, Brn-5 siRNA (m): sc-72665, Brn-5 shRNA Plasmid (h): sc-72664-SH, Brn-5 shRNA Plasmid (m): sc-72665-SH, Brn-5 shRNA (h) Lentiviral Particles: sc-72664-V and Brn-5 shRNA (m) Lentiviral Particles: sc-72665-V.

Brn-5 (L-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Brn-5: 33 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.