**BACKGROUND**

The Brn family of transcription factors are found in a highly restricted subset of neurons and are critical to the early embryonic development of the central nervous system. Brn-1 and Brn-2 are class III POU (Pit-Oct-Unc) domain proteins, whereas Brn-3 is a class IV POU domain protein. Three Brn-3 proteins have been described and are designated Brn-3a, Brn-3b and Brn-3c. While Brn-3a and Brn-3c stimulate transcription, Brn-3b generally functions as a transcriptional repressor. However, Brn-3b, but not Brn-3a, has been shown to regulate the expression of the acetylcholine receptor. Interestingly, Brn-3a has two functional transactivating domains, one at the amino-terminus and one at the carboxy-terminus. Brn-2 is thought to be involved in smooth muscle cell development and differentiation.

**REFERENCES**


**SOURCE**

Brn-3 (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Brn-3b 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-6026 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-6026 X, 200 µg/0.1 ml.

**APPLICATIONS**

Brn-3 (C-13) is recommended for detection of Brn-3a, Brn-3b and Brn-3c 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), immunohistochemistry (including paraffin-embedded sections) (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-3 (C-13) is also recommended for detection of Brn-3a, Brn-3b and Brn-3c in additional species, including equine, canine, bovine and porcine.

Brn-3 (C-13) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Brn-3a: 53 kDa.

Molecular Weight of Brn-3b: 51 kDa.

Molecular Weight of Brn-3c: 42 kDa.

**STORAGE**

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

**DATA**

![Western Blot Analysis](image)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

Try Brn-3a (14A6): sc-8429 or Brn-3 (A-4): sc-390780, our highly recommended monoclonal alternatives to Brn-3 (C-13). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see Brn-3a (14A6): sc-8429.