BACKGROUND

BarH2 is a homeobox containing protein required for the fate determination of external sensory organs in Drosophila. BarH2 (BarH-like 2 homeobox protein), also known as MBH1 in rat (mammalian homolog of BarH), is highly related to BarH2. It is a member of the BAR homeobox family of highly conserved proteins and contains one homeobox DNA-binding domain. BarH2 localizes to the nucleus and is expressed in the central nervous system as well as in mature and differentiating amacrine, horizontal and ganglion cells of the retina. BarH2 plays a role in regulating the specification of glycinergic amacrine cells and controls horizontal cell differentiation. BarH2 may also be involved in the regulation of neural basic helix-loop-helix genes.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: BARHL2 (human) mapping to 1p22.2; Barhl2 (mouse) mapping to 5 E5.

SOURCE

Barhl2 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Barhl2 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-67521 (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-67521 X, 200 µg/0.1 ml.

APPLICATIONS

Barhl2 (N-13) is recommended for detection of BarH-like 2 homeobox protein 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).

Suitable for use as control antibody for: Barhl2 siRNA (h): sc-62010, Barhl2 siRNA (m): sc-62011, Barhl2 shRNA Plasmid (h): sc-62010-SH, Barhl2 shRNA Plasmid (m): sc-62011-SH, Barhl2 shRNA (h) Lentiviral Particles: sc-62010-V and Barhl2 shRNA (m) Lentiviral Particles: sc-62011-V.

Barhl2 (N-13) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Barhl2: 42 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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 website at www.scbt.com or our catalog for detailed protocols and support products.