

Barhl1 (H-80): sc-50476

BACKGROUND

Drosophila gene BarH1 contains a homeobox required for external sensory organ fate determination. Homeobox proteins are regulators of place-dependent morphogenesis and play important roles in controlling the expression patterns of cell adhesion molecules. Barhl1 (BarH-like-1) is hypothesized to play a similar role in mouse and human development. *In situ* hybridization of mouse tissues at various stages of development demonstrate that Barhl1 expression is limited to restricted domains of the developing central nervous system, in particular the diencephalon and rhombencephalon. In the developing CNS, the expression of Barhl1 in migrating cells gives rise to the cerebellar external granular layer.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: BARHL1 (human) mapping to 9q34.13; Barhl1 (mouse) mapping to 2 A3.

SOURCE

Barhl1 (H-80) is a rabbit polyclonal antibody raised against amino acids 11-90 mapping near the N-terminus of Barhl1 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-50476 X, 200 µg/0.1 ml.

APPLICATIONS

Barhl1 (H-80) is recommended for detection of Barhl1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

Barhl1 (H-80) is also recommended for detection of Barhl1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Barhl1 siRNA (h): sc-62008, Barhl1 siRNA (m): sc-62009, Barhl1 shRNA Plasmid (h): sc-62008-SH, Barhl1 shRNA Plasmid (m): sc-62009-SH, Barhl1 shRNA (h) Lentiviral Particles: sc-62008-V and Barhl1 shRNA (m) Lentiviral Particles: sc-62009-V.

Barhl1 (H-80) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Barhl1: 35 kDa.

Positive Controls: PC-12 cell lysate: sc-2250, mouse brain extract: sc-2253 or rat cerebellum extract: sc-2398.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.



Try **Barhl1 (KA.25): sc-130465**, our highly recommended monoclonal alternative to Barhl1 (H-80).