

Barhl1 (N-17): sc-66731

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.

CHROMOSOMAL LOCATION

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

SOURCE

Barhl1 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at 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-66731 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-66731 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Barhl1 (N-17) 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 (N-17) 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 and Barhl1 siRNA (m): sc-62009; and as shRNA Plasmid control antibody for Barhl1 shRNA Plasmid (h): sc-62008-SH and Barhl1 shRNA Plasmid (m): sc-62009-SH.

Barhl1 (N-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

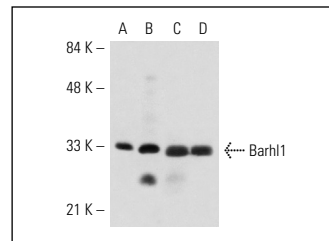
Molecular Weight of Barhl1: 35 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409, rat cerebellum extract: sc-2398 or mouse brain extract: sc-2253.

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

DATA



Barhl1 (N-17): sc-66731. Western blot analysis of Barhl1 expression in IMR-32 (A) and SH-SY5Y (B) nuclear extracts and rat cerebellum (C) and mouse brain (D) tissue extracts.

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.


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Try **Barhl1 (KA.25): sc-130465**, our highly recommended monoclonal alternative to Barhl1 (N-17).