**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. BarH1 (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 BarH1 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 BarH1 in migrating cells gives rise to the cerebellar external granular layer.

**REFERENCES**


**PRODUCT**

Each vial contains 100 µg IgGκ2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

BarH1 (KA.25) is recommended for detection of BarH1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)).

Suitable for use as control antibody for BarH1 siRNA (h): sc-62008, BarH1 siRNA (m): sc-62009, BarH1 shRNA Plasmid (h): sc-62008-SH, BarH1 shRNA Plasmid (m): sc-62009-SH, BarH1 shRNA (h) Lentiviral Particles: sc-62008-V and BarH1 shRNA (m) Lentiviral Particles: sc-62009-V.

Molecular Weight of BarH1: 35 kDa.

Positive Controls: PC-12 cell lysate: sc-2250, mouse brain extract: sc-2253, or IMR-32 cell lysate: sc-2409.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:100 0-1:100 00), 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).

**DATA**

**STORAGE**

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

**SOURCE**

BarH1 (KA.25) is a mouse monoclonal antibody raised against recombinant BarH1 of human origin.