

NHLH2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) **Catalog # AP54532**

Specification

NHLH2 Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession 002577

Rat, Pig, Dog, Bovine Reactivity Host **Rabbit** Clonality **Polyclonal** Calculated MW 15 KDa

Physical State Liquid Immunogen KLH conjugated synthetic peptide derived

from human NHLH2

1-50/135 **Epitope Specificity** laG Isotype **Purity**

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol. SUBCELLULAR LOCATION **Nucleus**

SIMILARITY Contains 1 bHLH (basic helix-loop-helix)

SUBUNIT Efficient DNA binding requires dimerization

with another bHLH protein.

Important Note This product as supplied is intended for

> research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

The helix-loop-helix (HLH) structures are known motifs commonly found in membrane-active and DNA-binding proteins. The helix-loop-helix proteins HEN1 and HEN2 are DNA-binding proteins that may be involved in cell-type determination in the early nervous system. Studies of expression in normal tissues have demonstrated expression of NHLH1/NSCL-1 and NHLH2/NSCL-2, the genes encoding HEN1 and HEN2, in the developing central and peripheral nervous system, specifically in developing neurons.

NHLH2 Polyclonal Antibody - Additional Information

Gene ID 4808

Other Names

Helix-loop-helix protein 2, HEN-2, Class A basic helix-loop-helix protein 34, bHLHa34, Nescient helix loop helix 2, NSCL-2, NHLH2, BHLHA34, HEN2, KIAA0490

WB~~1:1000<br \><span class</pre>

="dilution_IHC-P">IHC-P~~N/A
span class



="dilution_IHC-F">IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

NHLH2 Polyclonal Antibody - Protein Information

Name NHLH2

Synonyms BHLHA34, HEN2, KIAA0490

Function

Transcription factor which binds the E box motif 5'- CA[TC][AG]TG-3'. Involved in regulating energy expenditure, body mass, voluntary physical activity, mating behavior and reproductive longevity, acting through the hypothalamic-pituitary-gonadal axis. Acts as a transcriptional activator of target genes, including NDN, PCSK1, MC4R (By similarity). Is also a transcriptional activator of KISS1 (PubMed:35066646). May act centrally to regulate function of both white and brown adipose tissue. Together with NHLH1, required to maintain migration and survival of cells in the anterior extramural migration stream (aes), which forms the precerebellar nuclei. Also, in concert

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981}.

NHLH2 Polyclonal Antibody - Protocols

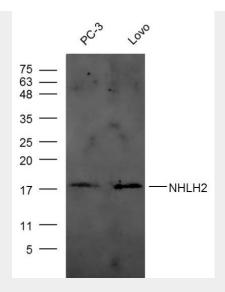
Provided below are standard protocols that you may find useful for product applications.

with NHLH1, may determine fate of gonadotropin releasing hormone-1 (GnRH-1) neurons.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NHLH2 Polyclonal Antibody - Images





Sample:

PC-3 (human)cell Lysate at 40 ug Lovo (human)cell Lysate at 40 ug

Primary: Anti- NHLH2 (bs-11524R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 15 kD Observed band size: 18 kD