10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NHLH2 Rabbit pAb

NHLH2 Rabbit pAb
Catalog # AP54532

Product Information

Application	WB
Primary Accession	Q02577
Reactivity	Human
Predicted	Rat, Pig, Dog, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	15018
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NHLH2
Epitope Specificity	1-50/135
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus
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.

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
Dilution	WB=1:500-2000
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.

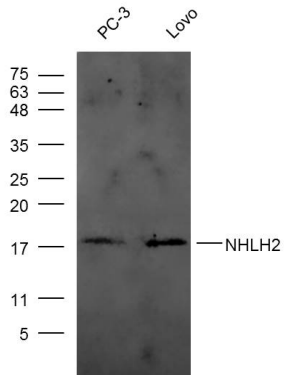
Protein Information

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 with NHLH1, may determine fate of gonadotropin releasing hormone-1 (GnRH-1) neurons.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981}.

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Images



Sample:
PC-3 (human)cell Lysate at 40 ug
Lovo (human)cell Lysate at 40 ug
Primary: Anti- NHLH2 (AP54532) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 15 kD
Observed band size: 18 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.