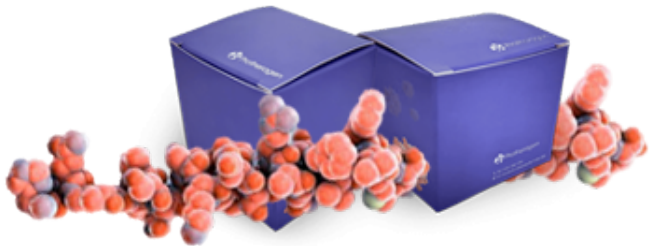
Protheragen Obesity



Porcine helix-loop-helix protein 2 (NHLH2) ELISA kit

Cat. No.:	0126WXX-1095
Assay Type:	Quantitative ELISA
Target Species:	Porcine
Assay Target:	NHLH2
Size:	48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Porcine helix-loop-helix protein 2 (NHLH2) ELISA kit is an ELISA-based *in vit ro* research tool designed specifically for the quantitative detection of NHL H2 in porcine samples. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on NHLH2 antibody-NHLH2 anti gen interactions (immunosorbency) and an HRP colorimetric detection system to de tect NHLH2 antigen targets in samples.
Background	NHLH2 is a basic helix-loop-helix (bHLH) transcription factor primarily expresse d in the central nervous system (especially the hypothalamus) and neuroendocrine tissues. It regulates the differentiation, development, and gene expression of neuroendocrine cells. NHLH2 is a key factor in the central regulation of energy homeostasis, and its relevance to obesity research lies in its profound effects on appetite and energy expenditure. Research indicates that NHLH2 participates i n regulating the expression of neuropeptides affecting satiety (such as POMC) in the hypothalamus. Its functional loss or defects lead to hyperphagia, reduced e nergy expenditure, and severe obesity with associated metabolic syndrome in expe rimental animals, demonstrating that the NHLH2 signaling pathway serves as a cen tral hub in weight regulation.
Synonyms	Class A basic helix-loop-helix protein 34; bHLHa34; Nescient helix loop helix 2; NSCL-2; HEN2; KIAA0490
Formula Weight	15,018 Da

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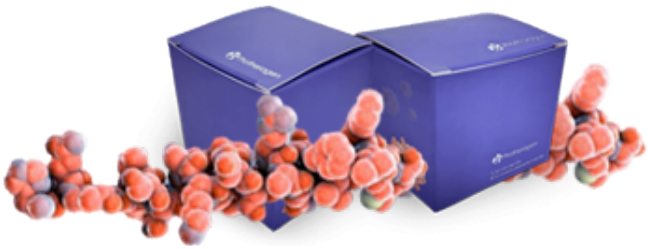

Applications	Porcine helix-loop-helix protein 2 (NHLH2) ELISA kit is used to quantify NHLH2 i n serum, plasma, cell culture supernatants, body fluid, and tissue homogenate of porcine, providing data to support research in a wide range of areas, including neuroendocrinology, developmental biology, transcriptional regulation, energy b alance, obesity, *etc*.
Research Area	Neuroendocrinology; Developmental Biology; Transcriptional Regulation; Energy ba lance; Obesity

Specification

Sample Type	Serum; Plasma; Cell culture supernatants; Body fluid; Tissue homogenate
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.

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