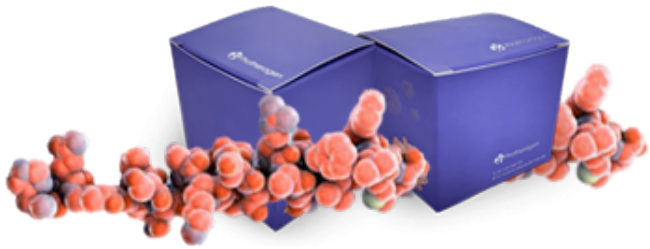
Protheragen
Obesity



Human Helix loop helix protein 2 (NHLH2) ELISA kit-Quantitative competitive

Cat. No.:	0126WXX-1092
Assay Type:	Quantitative competitive ELISA
Target Species:	Human
Assay Target:	NHLH2
Size:	48T; 96T

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

Product Overview

Description

Human Helix loop helix protein 2 (NHLH2) ELISA kit-Quantitative competitive is a n ELISA-based *in vitro* research tool designed specifically for the quanti tative detection of NHLH2 in human samples with a range of 10-250 ng/mL and a mi nimum detectable dose (sensitivity) of 1.0 ng/mL. The kit is highly sensitive an d 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.

Address: 101-4 Colin Dr, Holbrook, NY 11741, USA
Phone: 1-631-506-1393
info@obesityscientific.com

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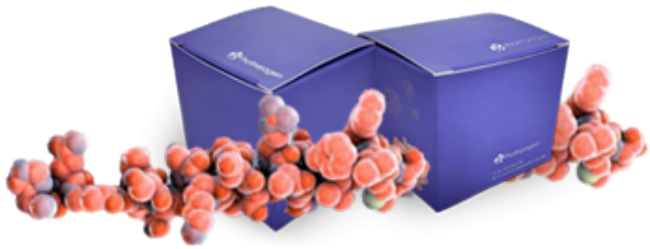

Synonyms	Class A basic helix-loop-helix protein 34; bHLHa34; Nescient helix loop helix 2; NSCL-2; HEN2; KIAA0490
Formula Weight	15,018 Da
Applications	Human Helix loop helix protein 2 (NHLH2) ELISA kit-Quantitative competitive is u sed to quantify NHLH2 in serum, plasma, cell culture supernatants, body fluid, a nd tissue homogenate of human, providing data to support research in a wide rang e of areas, including neuroendocrinology, developmental biology, transcriptional regulation, energy balance, 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
Detection Range	10-250 ng/mL
Sensitivity	1.0 ng/mL
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.

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