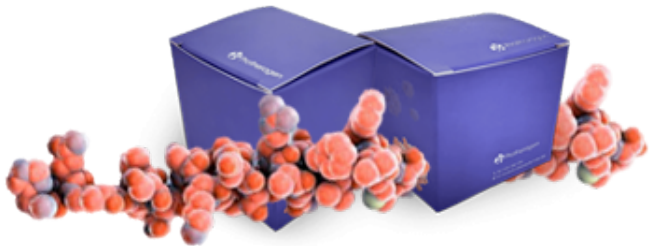
Protheragen Obesity



Porcine transient receptor potential cation channel subfamily V; member 1 (TRPV1) ELISA kit-Quantitative competitive

Cat. No.:	0126WXX-2013
Assay Type:	Quantitative competitive ELISA
Target Species:	Porcine
Assay Target:	TRPV1
Size:	48T; 96T

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

Product Overview

Description	Porcine transient receptor potential cation channel subfamily V; member 1 (TRPV1) ELISA kit-Quantitative competitive is an ELISA-based *in vitro* research tool designed specifically for the quantitative detection of TRPV1 in porcine sa mples with a range of 1.0-25 ng/mL and a minimum detectable dose (sensitivity) o f 0.1 ng/mL. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on TRPV1 antibody-TRPV1 anti gen interactions (immunosorbency) and an HRP colorimetric detection system to de tect TRPV1 antigen targets in samples.
Background	Transient receptor potential cation channel subfamily V member 1 (TRPV1) is a no n-selective cation channel and receptor for capsaicin, functioning as a transduc er of thermal and chemical stimuli in sensory neurons. By mediating calcium infl ux and downstream signaling, TRPV1 influences energy metabolism, thermogenesis, and appetite regulation. Altered TRPV1 activity has been associated with changes in metabolic rate and energy balance, linking it to obesity and related metabol ic disorders.
Synonyms	Vanilloid receptor subtype 1; Capsaicin receptor; Osm-9-like TRP channel 1; Vani lloid receptor 1; VR1; OTRPC1
Formula Weight	94,956 Da

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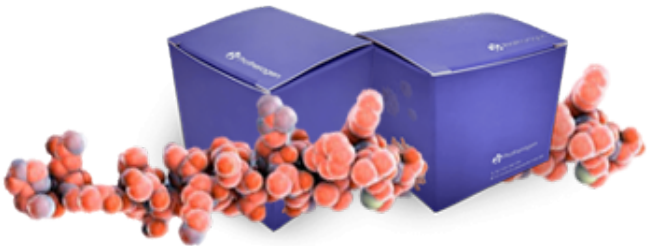

Applications	Porcine transient receptor potential cation channel subfamily V, member 1 (TRPV1) ELISA kit-Quantitative competitive is used to quantify TRPV1 in serum, plasma, cell culture supernatants, body fluid, tissue homogenate of porcine, providing data to support research in a wide range of areas, including signal transduction , obesity, and others.
Research Area	Signal transduction; Obesity

Specification

Sample Type	Serum; Plasma; Cell culture supernatants; Body fluid; Tissue homogenate
Detection Range	1.0-25 ng/mL
Sensitivity	0.1 ng/mL
Cross-reactivity	No significant cross-reactivity or interference was observed.
Recovery	94-103%
Storage	Store at 2-8°C.

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