



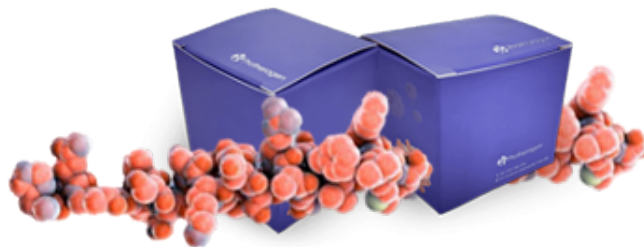
Rabbit transient receptor potential cation channel subfamily V; member 1 (TRPV1) ELISA kit-Quantitative competitive

Cat. No.:	0126WXX-2014
Assay Type:	Quantitative competitive ELISA
Target Species:	Rabbit
Assay Target:	TRPV1
Size:	48T; 96T

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

Product Overview

Description	Rabbit transient receptor potential cation channel subfamily V; member 1 (TRPV1) ELISA kit-Quantitative competitive is an ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of TRPV1 in rabbit samples with a range of 0.5-10 ng/mL and a minimum detectable dose (sensitivity) of 1.0 ug/mL. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on TRPV1 antibody-TRPV1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TRPV1 antigen targets in samples.
Background	Transient receptor potential cation channel subfamily V member 1 (TRPV1) is a non-selective cation channel and receptor for capsaicin, functioning as a transducer of thermal and chemical stimuli in sensory neurons. By mediating calcium influx 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 metabolic disorders.
Synonyms	Vanilloid receptor subtype 1; Capsaicin receptor; Osm-9-like TRP channel 1; Vanilloid receptor 1; VR1; OTRPC1
Formula Weight	94,956 Da

**Applications**

Rabbit 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 rabbit, 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	0.5-10 ng/mL
Sensitivity	1.0 ug/mL
Cross-reactivity	No significant cross-reactivity or interference was observed.
Recovery	94-103%
Storage	Store at 2-8°C.