

# Human Transient receptor potential cation channel subfamily V member 3 (TRPV3) ELISA Kit



Catalog No: #EK5994

Orders: order@signalwayantibody.com

Package Size: #EK5994-1 48T #EK5994-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human Transient receptor potential cation channel subfamily V member 3 (TRPV3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	VRL3; vanilloid receptor 3 vanilloid receptor-related osmotically activated channel protein
Accession No.	Q8NET8
Uniprot	Q8NET8
GeneID	162514;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:0.781-50 ng/mL

Sensitivity:0.29 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate TRPV3 in samples. An antibody specific for TRPV3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTRPV3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TRPV3 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TRPV3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The TRPV3 protein belongs to a family of nonselective cation channels that function in a variety of processes, including temperature sensation and vasoregulation. The thermosensitive members of this family are expressed in subsets of sensory neurons that terminate in the skin, and are activated at distinct physiological temperatures. This channel is activated at temperatures between 22 and 40 degrees C. The gene lies in close proximity to another family member (TRPV1) gene on chromosome 17, and the two encoded proteins are thought to associate with each other to form heteromeric channels. The TRPV3 channel is widely expressed in the human body, especially in the skin in keratinocytes, but also in the brain. It functions as a molecular sensor for innocuous warm temperatures.

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Note: This product is for in vitro research use only