

Human Transient receptor potential cation channel, subfamily V, member 1 ELISA Kit | TRPV1 elisa kit

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CATALOG #
AAA96148

REACTIVITY
Human

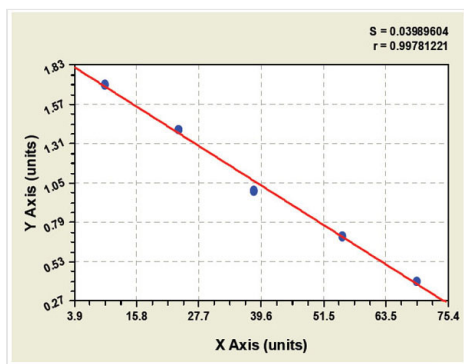
PRODUCT SYNONYMS

Transient receptor potential cation channel; subfamily V; member 1; Human Transient receptor potential cation channel; member 1 ELISA Kit; TRPV1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/mL
Intended Uses	This TRPV1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human TRPV1. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TRPV1 elisa kit

Principle of the assay: TRPV1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-TRPV1 antibody and an TRPV1-HRP conjugate. The assay sample and buffer are incubated together with TRPV1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the TRPV1 concentration since TRPV1 from samples and TRPV1-HRP conjugate compete for the anti-TRPV1 antibody binding site. Since the number of sites is limited, as more sites are occupied by TRPV1 from the sample, fewer sites are left to bind TRPV1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The TRPV1 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	74315354
NCBI GeneID	7442
NCBI Accession #	NP_542437.2
NCBI GenBank Nucleotide #	NM_080706.3
Molecular Weight	94,956 Da
NCBI Official Full Name	transient receptor potential cation channel subfamily V member 1
NCBI Official Synonym Full Names	transient receptor potential cation channel, subfamily V, member 1
NCBI Official Symbol	TRPV1
NCBI Official Synonym Symbols	VR1
NCBI Protein Information	transient receptor potential cation channel subfamily V member 1; OTRPC1; capsaicin receptor; osm-9-like TRP channel 1; vanilloid receptor subtype 1; transient receptor potential vanilloid 1a; transient receptor potential vanilloid 1b
UniProt Protein Name	Transient receptor potential cation channel subfamily V member 1
UniProt Gene Name	TRPV1
UniProt Synonym Gene Names	VR1; TrpV1; OTRPC1
UniProt Entry Name	TRPV1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/trpv1-human-elisa-kits/transient-receptor-potential-cation-channel-subfamily-v-member-1/96148>