

# Human Transient Receptor Potential Cation Channel Subfamily V Member 1 (TrpV1) ELISA Kit | TRPV1 elisa kit

Human Transient Receptor Potential Cation Channel Subfamily V Member 1 (TrpV1) ELISA Kit

CATALOG #  
**AAA330352**

REACTIVITY  
**Human**

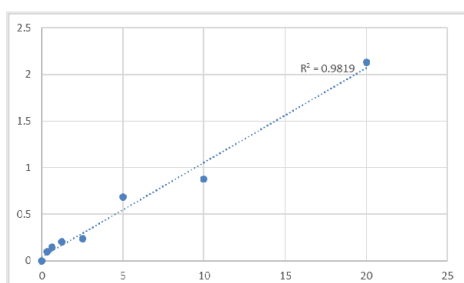
## PRODUCT SYNONYMS

Transient Receptor Potential Cation Channel Subfamily V Member 1 (TrpV1); Human Transient Receptor Potential Cation Channel Subfamily V Member 1 (TrpV1) ELISA Kit; TRPV1; DKFZp434K0220; VR1; capsaicin receptor; transient receptor potential vanilloid 1a; transient receptor potential vanilloid 1b; vanilloid receptor subtype 1; TRPV1 elisa kit

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Human Transient receptor potential cation channel subfamily V member 1 (TrpV1) ELISA Kit has high sensitivity and excellent specificity for detection of Human TRPV1. No significant cross-reactivity or interference between Human TRPV1 and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sequence Length         | 839                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## IMAGES



**Standard Curve (Sample)**

Fig.1. Human Transient receptor potential cation channel subfamily V member 1 (TrpV1) Standard Curve.

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for TRPV1 elisa kit | <p>Description: This Human Transient receptor potential cation channel subfamily V member 1 (TrpV1) ELISA Kit employs a two-site sandwich ELISA to quantitate TRPV1 in samples. An antibody specific for TRPV1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TRPV1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TRPV1 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 TRPV1 bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: TRPV1 is a nonselective cation channel that may be activated by a wide variety of exogenous and endogenous physical and chemical stimuli. The best-known activators of TRPV1 are heat greater than 43 degree C and capsaicin, the pungent compound in hot chili peppers. The activation of TRPV1 leads to painful, burning sensation. Its endogenous activators include: low pH, the endocannabinoid anandamide, N-arachidonoyl-dopamine. TRPV1 receptors are found mainly in the nociceptive neurons of the peripheral nervous system, but they have also been described in many other tissues, including the central nervous system. TRPV1 is involved in the transmission and modulation of pain, as well as the integration of diverse painful stimuli.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                  |
|----------------------------------|------------------------------------------------------------------|
| NCBI GI #                        | 74315354                                                         |
| NCBI GeneID                      | 7442                                                             |
| NCBI Accession #                 | NP_542437                                                        |
| NCBI GenBank Nucleotide #        | NP_542437.2                                                      |
| UniProt Accession #              | Q8NER1                                                           |
| 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 |
| 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/human-elisa-kits/transient-receptor-potential-cation-channel-subfamily-v-member-1-trpv1/330352>