





Human transient receptor potential cation channel subfamily V member 4 (TrpV4)ELISA Kit

Product Code	CSB-E14199h
Protein Biological Process 2	Anion transport
Abbreviation	TRPV4
Protein Biological Process 1	Transport
Target Name	transient receptor potential cation channel, subfamily V, member 4
Uniprot No.	Q9HBA0
Alias	OTRPC4, TRP12, VR-OAC, VRL-2, VRL2, VROAC, OSM9-like transient receptor potential channel 4 osmosensitive transient receptor potential channel 4 transient receptor potential channel 12 vanilloid rec
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Calcium transport
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Neuroscience
Gene Names	TRPV4
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human TRPV4 ELISA Kit was designed for the quantitative measurement of Human TRPV4 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.
Target Details	This gene encodes a member of the OSM9-like transient receptor potential

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channel (OTRPC) subfamily in the transient receptor potential (TRP) superfamily of ion channels. The encoded protein is a Ca2+-permeable, nonselective cation channel that is thought to be involved in the regulation of systemic osmotic pressure. Two transcript variants encoding different isoforms have been found for this gene.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human TrpV4 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	101
	Range %	95-108
1:2	Average %	85
	Range %	80-93
1:4	Average %	92
	Range %	88-97
1:8	Average %	90
	Range %	85-94

Recovery

The recovery of human TrpV4 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	98	94-103
EDTA plasma (n=4)	94	90-100

Typical

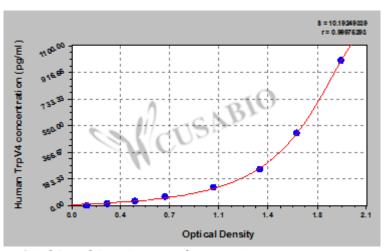
These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.











pg/ml OD1 OD2 Average Corrected

1000 2.004 1.925 1.965 1.840 500 1.682 1.601 1.642 1.517 1.255 250 1.350 1.410 1.380 125 1.023 1.052 1.038 0.913 62.5 0.671 0.703 0.687 0.562 31.25 0.487 0.456 0.472 0.347 15.6 0.272 0.264 0.268 0.143 0.128 0.121 0.125 ?

Msds

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