

Human Transient Receptor Potential Cation Channel Subfamily A Member 1 (TRPA1) ELISA Kit | TRPA1 elisa kit

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CATALOG #
AAA330357

REACTIVITY
Human

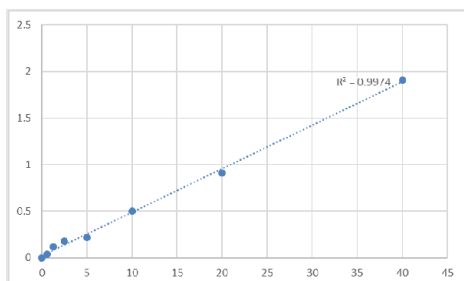
PRODUCT SYNONYMS

Transient Receptor Potential Cation Channel Subfamily A Member 1 (TRPA1); Human Transient Receptor Potential Cation Channel Subfamily A Member 1 (TRPA1) ELISA Kit; TRPA1; ANKTM1; ankyrin-like protein 1; ankyrin-like with transmembrane domains 1; TRPA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Transient receptor potential cation channel subfamily A member 1 (TRPA1) ELISA Kit has high sensitivity and excellent specificity for detection of Human TRPA1. No significant cross-reactivity or interference between Human TRPA1 and analogues was observed.
Sequence Length	1119
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Transient receptor potential cation channel subfamily A member 1 (TRPA1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TRPA1 elisa kit	Description: This Human Transient receptor potential cation channel subfamily A member 1 (TRPA1) ELISA Kit employs a two-site sandwich ELISA to quantitate TRPA1 in samples. An antibody specific for TRPA1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TRPA1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TRPA1 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 TRPA1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: TRPA1 is a member of the transient receptor potential channel family. TRPA1, contains 14 N-terminal ankyrin repeats and is believed to function as a mechanical stress sensor. The specific function of this protein has not yet been determined; however, studies indicate the function may involve a role in signal transduction and growth control. Recent studies indicate that TRPA1 is activated by a number reactive compounds (allyl isothiocyanate, cinnamaldehyde, farnesyl thiosalicylic acid, Nicotine and its structural analogues formalin, hydrogen peroxide, 4-hydroxynonenal, and acrolein) and considered as a 'chemosensor' in the body. TRPA1 is considered as an attractive pain target based on the fact that TRPA1 knockout mice showed near complete attenuation of formalin-induced pain behaviors.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	116534990
NCBI GeneID	8989
NCBI Accession #	NP_015628.2
NCBI GenBank Nucleotide #	NP_015628.2
UniProt Accession #	O75762
NCBI Official Full Name	transient receptor potential cation channel subfamily A member 1
NCBI Official Synonym Full Names	transient receptor potential cation channel subfamily A member 1
NCBI Official Symbol	TRPA1
NCBI Official Synonym Symbols	FEPS; FEPS1; ANKTM1
NCBI Protein Information	transient receptor potential cation channel subfamily A member 1
UniProt Protein Name	Transient receptor potential cation channel subfamily A member 1
UniProt Gene Name	TRPA1
UniProt Synonym Gene Names	ANKTM1
UniProt Entry Name	TRPA1_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.