

Human Transient receptor potential cation channel subfamily A member 1 (TRPA1) ELISA Kit

Catalog No: #EK6005

Orders: order@signalwayantibody.com

Package Size: #EK6005-1 48T #EK6005-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Transient receptor potential cation channel subfamily A member 1 (TRPA1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ANKTM1; ankyrin-like protein 1 ankyrin-like with transmembrane domains 1
Accession No.	O75762
Uniprot	O75762
GeneID	8989;
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:0.625-40 ng/mL

Sensitivity:0.251 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 TRPA1 in samples. An antibody specific for TRPA1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTRPA1 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.**Product Overview:**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.

Note: This product is for in vitro research use only