

Rabbit anti-Human TRPA1/TSA Polyclonal Antibody | anti-TRPA1 antibody

Anti-TRPA1/TSA Antibody

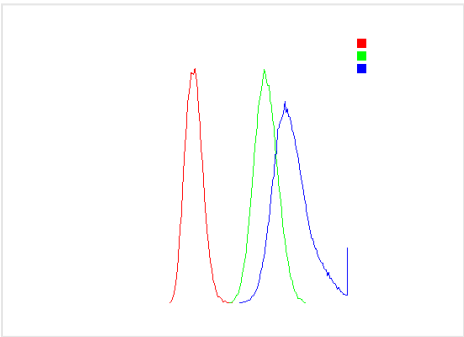
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125546	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

TRPA1/TSA; Polyclonal Antibody; Anti-TRPA1/TSA Antibody; Trpa1; Anktm1; Transient receptor potential cation channel subfamily A member 1; Ankyrin-like with transmembrane domains protein 1; Wasabi receptor; transient receptor potential cation channel subfamily A member 1; anti-TRPA1 antibody

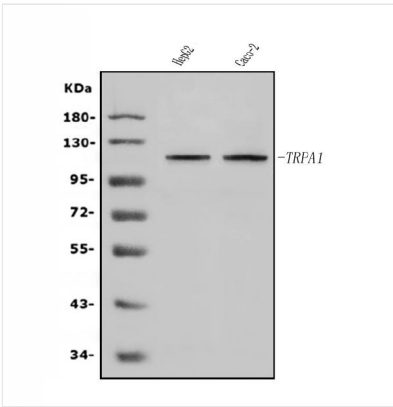
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for TRPA1/TSA detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-TRPA1 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human TRPA1/TSA recombinant protein (Position: A366-N615).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of A549 cells using anti-TRPA1/TSA antibody (AAA125546).Overlay histogram showing A549 cells stained with AAA125546 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TRPA1/TSA Antibody (AAA125546, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of TRPA1/TSA using anti-TRPA1/TSA antibody (AAA125546).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human HEPG2 whole cell lysatesLane 2: human CACO-2 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-TRPA1/TSA antigen affinity purified polyclonal antibody (Catalog # AAA125546) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for TRPA1/TSA at approximately 120KD. The expected band size for TRPA1/TSA is at 120KD.

ADDITIONAL INFORMATION

Related Product Information for anti-TRPA1 antibody	Transient receptor potential cation channel, subfamily A, member 1, also known as transient receptor potential ankyrin 1 or TRPA1, is a protein that in humans is encoded by the TRPA1 (and in mice and rats by the Trpa1) gene. The structure of the protein encoded by this gene is highly related to both the protein ankyrin and transmembrane proteins. 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.
References	1. Andre, E., Campi, B., Materazzi, S., Trevisani, M., Amadesi, S., Massi, D., Creminon, C., Vaksman, N., Nassini, R., Civelli, M., Baraldi, P. G., Poole, D. P., Bunnett, N. W., Geppetti, P., Patacchini, R. Cigarette smoke-induced neurogenic inflammation is mediated by alpha, beta-unsaturated aldehydes and the TRPA1 receptor in rodents. J. Clin. Invest. 118: 2574-2582, 2008. 2. Bandell, M., Story, G. M., Hwang, S. W., Viswanath, V., Eid, S. R., Petrus, M. J., Earley, T. J., Patapoutian, A. Noxious cold ion channel TRPA1 is activated by pungent compounds and bradykinin. Neuron 41: 849-857, 2004. 3. Bautista, D. M., Jordt, S. -E., Nikai, T., Tsuruda, P. R., Read, A. J., Poblete, J., Yamoah, E. N., Basbaum, A. I., Julius, D. TRPA1 mediates the inflammatory actions of environmental irritants and proalgesic agents. Cell 124: 1269-1282, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116534990
NCBI GeneID	8989
NCBI Accession #	NP_015628.2
NCBI GenBank Nucleotide #	NM_007332.2
UniProt Accession #	O75762; A6NIN6
Molecular Weight	127,501 Da
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; ANKTM1
NCBI Protein Information	transient receptor potential cation channel subfamily A member 1; ankyrin-like with transmembrane domains 1; transformation-sensitive protein p120
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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/trpa1-tsa-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125546>