

Rabbit VRL1/TRPV2 Polyclonal Antibody | anti-TRPV2 antibody

Anti-VRL1/TRPV2 Antibody

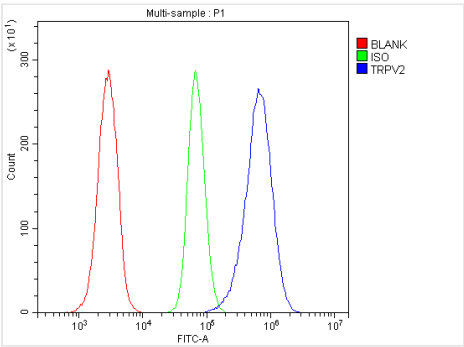
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125670	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

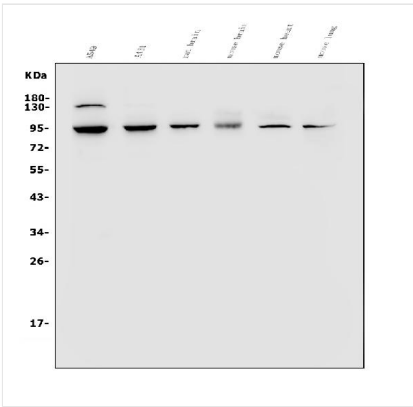
VRL1/TRPV2; Polyclonal Antibody; Anti-VRL1/TRPV2 Antibody; TRPV2; VRL; Transient receptor potential cation channel subfamily V member 2; TrpV2; Osm-9-like TRP channel 2; OTRPC2; Vanilloid receptor-like protein 1; VRL-1; transient receptor potential cation channel; subfamily V; member 2; anti-TRPV2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for VRL1/TRPV2 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-TRPV2 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human VRL1/TRPV2 recombinant protein (Position: S7-K390).
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 HL-60 cells using anti-VRL1/TRPV2 antibody (AAA125670). Overlay histogram showing HL-60 cells stained with AAA125670 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-VRL1/TRPV2 Antibody (AAA125670, 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 VRL1/TRPV2 using anti-VRL1/TRPV2 antibody (AAA125670). 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 30ug of sample under reducing conditions. Lane 1: human A549 whole cell lysates Lane 2: human A431 whole cell lysates Lane 3: rat brain tissue lysates Lane 4: mouse brain tissue lysates Lane 5: mouse heart tissue lysates Lane 6: mouse lung tissue 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-VRL1/TRPV2 antigen affinity purified polyclonal antibody (Catalog # AAA125670) 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 VRL1/TRPV2 at approximately 95KD. The expected band size for VRL1/TRPV2 is at 95KD.

ADDITIONAL INFORMATION

Related Product Information for anti-TRPV2 antibody	TRPV2(Transient Receptor Potential Cation Channel Subfamily V Member 2), also known as VRL1, is a protein that, in humans, is encoded by the TRPV1 gene. The International Radiation Hybrid Mapping Consortium mapped the TRPV2 gene to chromosome 17. This gene encodes an ion channel that is activated by high temperatures above 52 degree C. The protein may be involved in transduction of high-temperature heat responses in sensory ganglia. It is though that in other tissues the channel may be activated by stimuli other than heat.
References	1. Caterina, M. J., Rosen, T. A., Tominaga, M., Brake, A. J., Julius, D. A capsaicin-receptor homologue with a high threshold for noxious heat. Nature 398: 436-441, 1999. 2. Iwata, Y., Katanosaka, Y., Arai, Y., Shigekawa, M., Wakabayashi, S. Dominant-negative inhibition of Ca(2+) influx via TRPV2 ameliorates muscular dystrophy in animal models. Hum. Molec. Genet. 18: 824-834, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20127551
NCBI GeneID	51393
NCBI Accession #	NP_057197.2
NCBI GenBank Nucleotide #	NM_016113.4
UniProt Accession #	Q9Y5S1; Q9Y670; A6NML2; A8K0Z0
Molecular Weight	85,981 Da
NCBI Official Full Name	transient receptor potential cation channel subfamily V member 2
NCBI Official Synonym Full Names	transient receptor potential cation channel subfamily V member 2
NCBI Official Symbol	TRPV2
NCBI Official Synonym Symbols	VRL; VRL1; VRL-1

NCBI Protein Information	transient receptor potential cation channel subfamily V member 2
UniProt Protein Name	Transient receptor potential cation channel subfamily V member 2
UniProt Gene Name	TRPV2
UniProt Synonym Gene Names	VRL; TrpV2; OTRPC2; VRL-1

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/polyclonal/vrl1-trpv2-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125670>