

Datasheet for ABIN2776241
anti-TRPV4 antibody (N-Term)

3 Images

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	TRPV4
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Pig, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRPV4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N-terminal region of human TRPV4
Sequence:	AGPGGEVAELP GDESGTPGGE AFPLSSLANL FEGEDGSLSP SPADASRPAG
Predicted Reactivity:	Cow: 85%, Dog: 92%, Human: 100%, Mouse: 86%, Pig: 92%, Rat: 85%
Characteristics:	This is a rabbit polyclonal antibody against TRPV4. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	TRPV4
Alternative Name:	TRPV4 (TRPV4 Products)
Background:	This gene encodes a member of the OSM9-like transient receptor potential channel (OTRPC)

Target Details

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. Mutations in this gene are the cause of spondylometaphyseal and metatropic dysplasia and hereditary motor and sensory neuropathy type IIC. Multiple transcript variants encoding different isoforms have been found for this gene. Alias Symbols: SMAL, VRL2, BCYM3, CMT2C, SPSMA, TRP12, VROAC, HMSN2C, OTRPC4, SSQTL1
Protein Size: 552

Molecular Weight: 60 kDa

Gene ID: 59341

NCBI Accession: [NM_001177428](#), [NP_001170899](#)

UniProt: [Q9HBA0](#)

Pathways: [Hormone Transport](#), [Cell-Cell Junction Organization](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

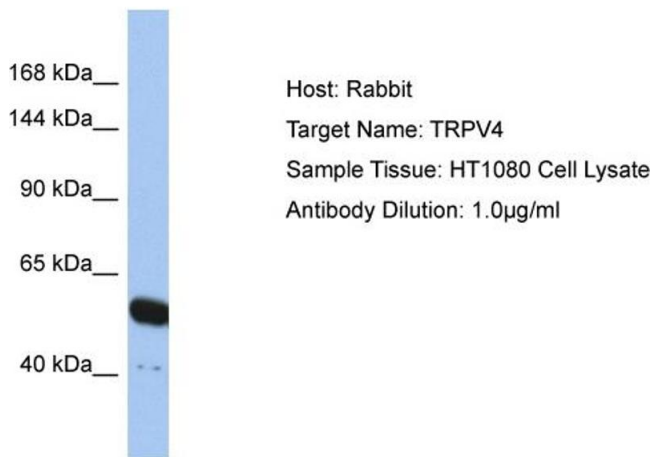
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeat freeze-thaw cycles.

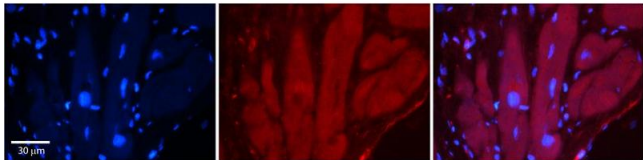
Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.



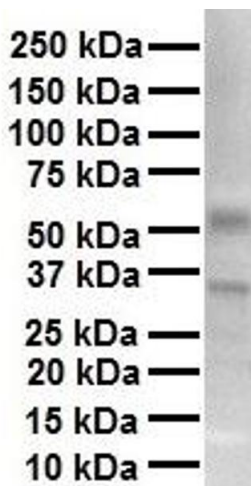
Western Blotting

Image 1. Host: Rabbit Target Name: TRPV4 Sample Type: HT1080 Whole cell lysates Antibody Dilution: 1.0ug/ml



Immunohistochemistry

Image 2. Rabbit Anti-TRPV4 Antibody Catalog Number: ARP35331_P050 Formalin Fixed Paraffin Embedded Tissue: Human Adult heart Observed Staining: Cytoplasmic Primary Antibody Concentration: 1:100 Secondary Antibody: Donkey anti-Rabbit-Cy2/3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 – 2.0 sec Protocol located in Reviews and Data.



Western Blotting

Image 3. WB Suggested Anti-TRPV4 antibody Titration: 1 ug/mL Sample Type: Human heart