Datasheet for ABIN3044146

anti-TRPC6 antibody (Middle Region)

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Overview

Quantity:	100 µg
Target:	TRPC6
Binding Specificity:	AA 249-265, Middle Region
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRPC6 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Short transient receptor potential channel 6(TRPC6) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human TRPC6(249-265aa HDYFCKCNDCNQKQKHD), different from the related rat and mouse sequences by three amino acids.
Sequence:	HDYFCKCNDC NQKQKHD
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.

Product Details

Characteristics:	Rabbit IgG polyclonal antibody for Short transient receptor potential channel 6(TRPC6) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: transient receptor potential cation channel, subfamily C, member 6 Protein Name: Short transient receptor potential channel 6(TrpC6)
Purification:	Immunogen affinity purified.

Target Details

Target:	TRPC6
Alternative Name:	TRPC6 (TRPC6 Products)
Background:	Transient receptor potential cation channel, subfamily C, member 6, also known as TRPC6, is a human gene encoding a protein of the same name. The protein encoded by this gene forms a receptor-activated calcium channel in the cell membrane. The channel is activated by diacylglycerol and is thought to be under the control of a phosphatidylinositol second messenger system. Activation of this channel occurs independently of protein kinase C and is not triggered by low levels of intracellular calcium. Defects in this gene are a cause of focal segmental glomerulosclerosis 2 (FSGS2). Synonyms: bZ1P14.9 antibody|FLJ11098 antibody|FLJ14863 antibody|FSGS2 antibody|MTRP6 antibody|Short transient receptor potential channel 6 antibody|si:rp71-1p14.9 antibody|Transient Receptor Potential Cation Channel Subfamily C Member 6 antibody|Transient receptor protein 6 antibody|TRP 6 antibody|TRP-6 antibody|TRP6 antibody|TRPC 6 antibody|TrpC6 antibody|Trpc6 antibody|TRPC6_HUMAN antibody|TRRP6 antibody
UniProt:	Q9Y210

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat, Predicted Species: Human, Mouse IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.

Application Details

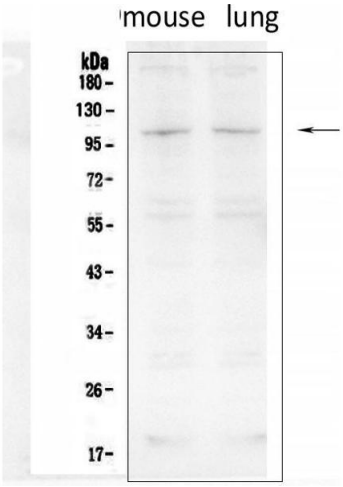
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

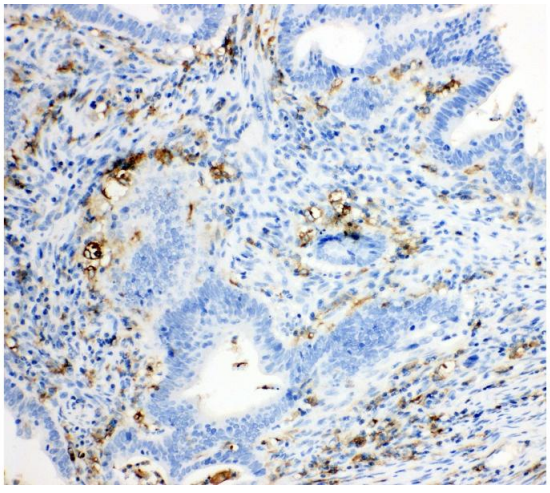
Publications

Product cited in:	Wang, Wang, Li: "TRPC1/TRPC3 channels mediate lysophosphatidylcholine-induced apoptosis in cultured human coronary artery smooth muscles cells." in: **Oncotarget**, Vol. 7, Issue 32, pp. 50937-50951, (2018) (PubMed).



Western Blotting

Image 1. Western blot analysis of TRPC6 using anti- TRPC6 antibody . 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: mouse lung Tissue Lysate 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- TRPC6 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TRPC6 at approximately 106KD. The expected band size for TRPC6 is at 106KD.



Immunohistochemistry

Image 2. Anti-TRPC6 antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue

Images

Western Blotting

Image 3. Anti-TRPC6 antibody, Western blotting Lane 1: Rat Lung Tissue Lysate Lane 2: 293T Cell Lysate Lane 3: 293T Cell Lysate

Please check the product details page for more images. Overall 4 images are available for ABIN3044146.