Datasheet for 600-401-H29

TRPC6 Antibody

Overview

Description:	Anti-TRPC6 (RABBIT) Antibody - 600-401-H29
Item No.:	600-401-H29
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	TRPC6 antibody detects human TRPC6. The mammalian transient receptor potential (TRP) superfamily can be divided into three major families including the "canonical TRP" (TRPC) family. The seven members of this family share the activation through PLC-coupled receptors and have been suggested to be components of receptor-regulated cation channels in different cell types. Furthermore, the members of the TRPC6/6/7 subfamily can be activated by diacylglycerol (DAG) analogs, suggesting a possible mechanism of activation of these channels by PLC-coupled receptors. When expressed in transfected cells, TRPC6 acts as a non-selective store-independent receptor-activated cation channel. It is activated by DAG in a PKC-independent manner and is insensitive to IP3 activation. There is increasing evidence that TRPC6 encodes endogenous DAG-activated receptor-operated cation channels in vivo. Anti-TRPC6 antibodies are ideal for investigators involved in enzyme research.
Synonyms:	TRP6
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TRPC6
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	TRPC6 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide near the n-terminus of human TRPC6.
Purity/Specificity:	Anti-TRCP6 Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with TRCP6 with Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with TRPC6 from other sources has not been determined.
Relevant Links:	• NCBI - AAH93658 • UniProtKB - Q9Y210 • GeneID - 7225

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-TRPC6 Antibody is tested for use in E, WB, IF, and IHC. Expect a band approximately ~106.3 kDa on specific lysates. Western Blot, Immunocytochemistry, and Immunofluorescence tested in human samples; Immunohistochemistry in mouse samples. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	5µg/mL
IHC:	10µg/mL
WB:	0.5-1 ug/mL

Formulation

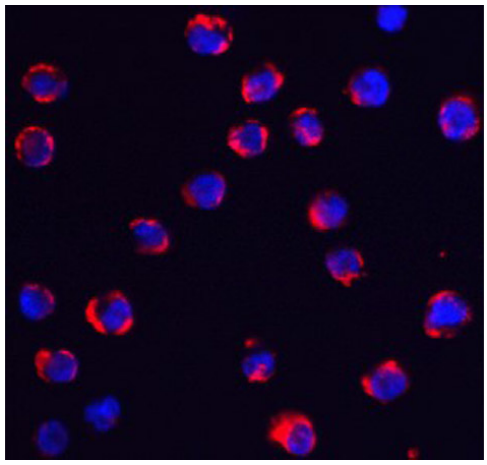
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

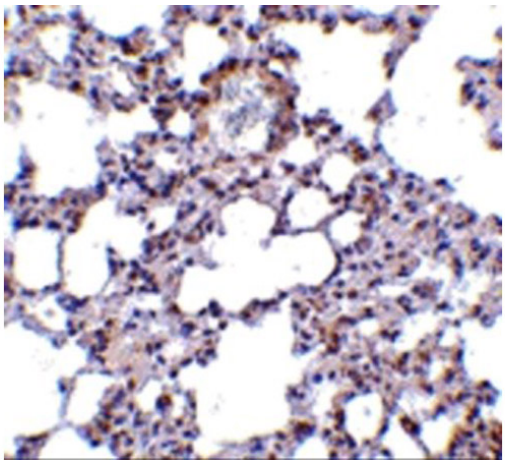
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

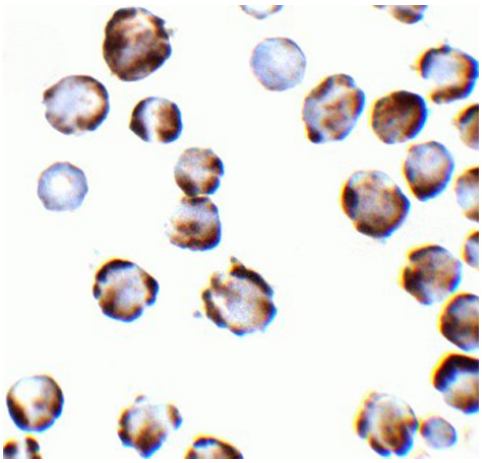
Images



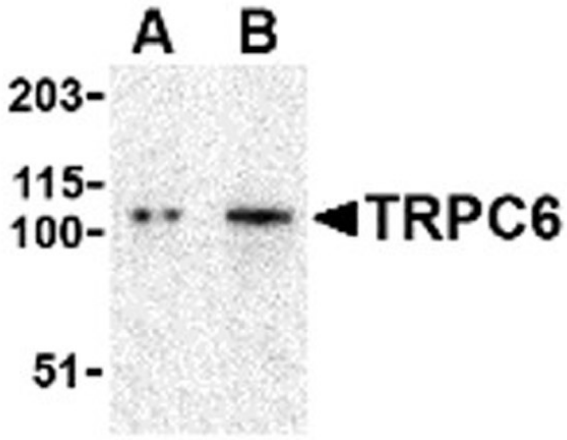
Immunofluorescence Microscopy
Immunofluorescence of TRPC6.
Cell: K562 cells.
Primary Antibody: Anti-TRPC6 antibody at 5 µg/ml.
Staining: TRPC6 Antibody (red), DAPI (blue).



Immunohistochemistry
Immunohistochemistry of TRPC6.
Tissue: mouse lung tissue.
Primary Antibody: Anti-TRPC6 antibody at 10 µg/mL.



Immunocytochemistry
Immunocytochemistry of TRPC6.
Cell: K562 cells.
Primary Antibody: Anti-TRPC6 antibody at 2 µg/mL.



Western Blot
Western blot analysis of TRPC6.
Load: K562 cell lysate.
Primary Antibody: Anti-TRPC6 antibody at (A) 0.5µg/mL and (B) 1µg/mL.

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