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Anti-TRPC6 Antibody
Catalog # ABO11064

Specification

Anti-TRPC6 Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	Q9Y210
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Short transient receptor potential channel 6(TRPC6) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-TRPC6 Antibody - Additional Information

Gene ID 7225

Other Names
Short transient receptor potential channel 6, TrpC6, Transient receptor protein 6, TRP-6, TRPC6, TRP6

Calculated MW
106326 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Rat, Human, Mouse

Subcellular Localization
Membrane ; Multi-pass membrane protein .

Tissue Specificity
Expressed primarily in placenta, lung, spleen, ovary and small intestine. Expressed in podocytes and is a component of the glomerular slit diaphragm. .

Protein Name
Short transient receptor potential channel 6(TrpC6)

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

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.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, 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.**

Sequence Similarities
Belongs to the transient receptor (TC 1.A.4) family. STrpC subfamily. TRPC6 sub-subfamily.

Anti-TRPC6 Antibody - Protein Information

Name TRPC6 {ECO:0000303|PubMed:9930701, ECO:0000312|HGNC:HGNC:12338}

Function
Forms a receptor-activated non-selective calcium permeant cation channel (PubMed:19936226, PubMed:23291369, PubMed:26892346, PubMed:9930701). Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Activated by diacylglycerol (DAG) in a membrane-delimited fashion, independently of protein kinase C (PubMed:26892346). Seems not to be activated by intracellular calcium store depletion.

Cellular Location
Cell membrane; Multi-pass membrane protein

Tissue Location
Expressed primarily in placenta, lung, spleen, ovary and small intestine. Expressed in podocytes and is a component of the glomerular slit diaphragm.

Anti-TRPC6 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-TRPC6 Antibody - Images

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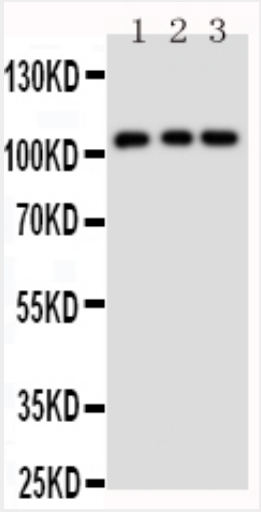
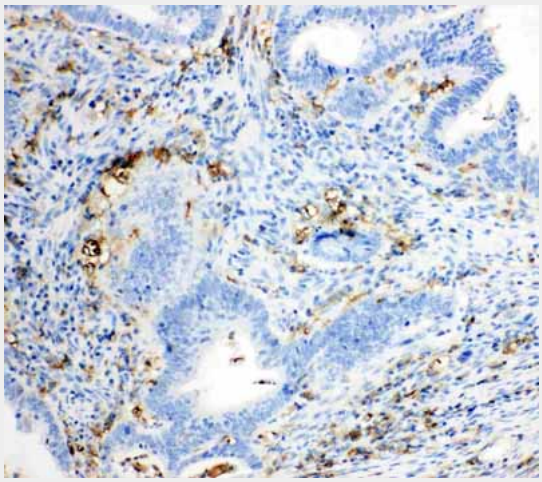
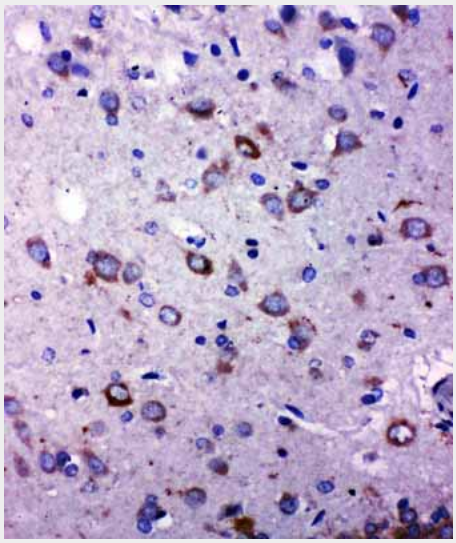


Anti-TRPC6 antibody, ABO11064, Western blottingLane 1: Rat Lung Tissue LysateLane 2: 293T Cell LysateLane 3: 293T Cell Lysate



Anti-TRPC6 antibody, ABO11064, IHC(P)IHC(P): Human Intestinal Cancer Tissue



Anti-TRPC6 antibody, ABO11064, IHC(P)IHC(P): Rat Brain Tissue

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Anti-TRPC6 Antibody - 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).