

TRPC6 Polyclonal Antibody

Catalog Number PA5-29847

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Type	Antibody	Western Blot (WB)	1:500-1:3,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 121 and 458 of Human TRPC6	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.84 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	0.1M tris glycine, pH 7, with 20% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: A549, A549 membrane fraction extract. Predicted reactivity: Mouse (96%), Rat (95%), Bovine (96%), Guinea pig (97%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

Trpc6 forms a receptor-activated calcium channel in the cell membrane. The Trpc6 channel is activated by diacylglycerol and is thought to be under the control of a phosphatidylinositol second messenger system. Activation of the Trpc6 channel occurs independently of protein kinase C and is not triggered by low levels of intracellular calcium. Defects in the Trpc6 gene are a cause of focal segmental glomerulosclerosis 2 (FSGS2). Further, Trpc6 is a member of 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. Trpc6 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. Diseases associated with TRPC6 include Glomerulosclerosis, Focal Segmental, 2 and Focal Segmental Glomerulosclerosis.

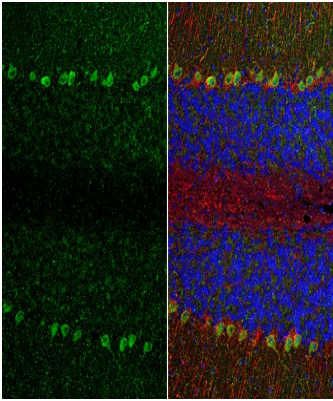
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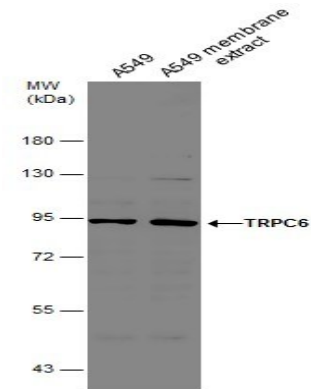
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Product Images For TRPC6 Polyclonal Antibody



TRPC6 Antibody (PA5-29847) in IHC (P)

Immunohistochemistry (Paraffin) analysis of TRPC6 was performed in paraffin-embedded mouse cerebellum tissue using Green: VGAT Polyclonal Antibody (Product # PA5-27569) at a dilution of 1:500. Red: NF-H, a neuron marker, stained by NF-H antibody diluted at 1:500. Blue: Fluoroshield with DAPI. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



TRPC6 Antibody (PA5-29847) in WB

Western Blot analysis of TRPC6 was performed by separating 30 µg of A549 whole cell and membrane extracts by 7.5% SDS-PAGE. Proteins were transferred to a membrane and probed with a TRPC6 Polyclonal Antibody (Product # PA5-29847) at a dilution of 1:1000.

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