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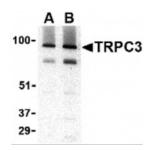
## HIGH PERFORMANCE ANTIBODIES ... AND MORE

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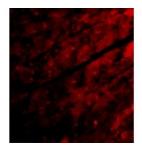
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## **TRPC3 Antibody**

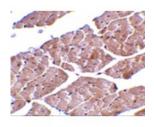
CATALOG NUMBER: 3905



Western blot analysis of TRPC3 in human brain tissue lysate with TRPC3 antibody at (A) 1 and (B) 2 ug/mL.



Immunofluorescence of TRPC3 in Mouse Heart cells with TRPC3 antibody at 20 ug/mL.



Immunohistochemistry of TRPC3 in mouse heart tissue with TRPC3 antibody at 2 ug/mL.

Specifications	
SPECIES REACTIVITY:	Human, Mouse
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Rat: (100%)
TESTED APPLICATIONS:	ELISA, IF, IHC-P, WB
APPLICATIONS:	TRPC3 antibody can be used for the detection of TRPC3 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 2 ug/mL. For immunofluorescence start at 20 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1303 - Human Brain Tissue Lysate
	2) Cat. No. 1401 - Mouse Heart Tissue Lysate
IMMUNOGEN:	TRPC3 antibody was raised against a 14 amino acid synthetic peptide from near the carboxy terminus of human TRPC3.
	The immunogen is located within amino acids 760 - 810 of TRPC3.
HOST SPECIES:	Rabbit
Duamantiaa	
Properties	
PURIFICATION:	TRPC3 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	TRPC3 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	TRPC3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Polyclonal
ISOTYPE:	lgG
CONJUGATE:	Unconjugated

## **Additional Info**

ALTERNATE NAMES:	TRPC3 Antibody: TRP3, TRP3, Short transient receptor potential channel 3, Transient receptor protein 3, TrpC3
ACCESSION NO.:	CAA74083
PROTEIN GI NO.:	2225937
OFFICIAL SYMBOL:	TRPC3
GENE ID:	7222
Background	
BACKGROUND:	TRPC3 Antibody: 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 TRPC3/6/7 subfamily can be activated by diacylglycerol analogs, suggesting a possible mechanism of activation of these channels by PLC-coupled receptors. TRPC3 encodes a Ca2+-permeant channel that is agonist-activated but not store-operated or directly receptor-activated. TRPC3 physically interacts with TRPC6 and TRPC7 and forms functional tetrameric channels.
REFERENCES:	1) Contell C, Birnbaumer V, Flockerzi V, et al. A unified nomenclature for the superfamily of TRP cation channels. Mol. Cell 2002; 9:229-31.
	2) Trebak M, Vazquez G, Bird GSJ, et al. The TRPC3/6/7 subfamily of cation channels. Cell Calcium 2003; 33:451-61.
	3) Zitt C, Obukhov AG, Strubing C, et al. Expression of TRPC3 in Chinese hamster ovary cells results in calcium-activated cation currents not related to store depletion. J. Cell. Biol. 1997; 1333-41.
	4) Dietrich A, Kalwa H, Rost BR, et al. The diacylglycerol-sensitive TRPC3/6/7 subfamily of cation channels: functional characterization and physiological relevance. Pflugers Arch. 2005; 451:72-80.

## FOR RESEARCH USE ONLY

December 12, 2016