

TRPC3 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14579b**Specification**

TRPC3 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	Q13507
Other Accession	Q9JMI9 , Q9QZC1 , NP_003296.1 , NP_001124170.1
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	105538
Antigen Region	765-793

TRPC3 Antibody (C-term) - Additional Information**Gene ID** 7222**Other Names**

Short transient receptor potential channel 3, TrpC3, Transient receptor protein 3, TRP-3, hTrp-3, hTrp3, TRPC3, TRP3

Target/Specificity

This TRPC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 765-793 amino acids from the C-terminal region of human TRPC3.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TRPC3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TRPC3 Antibody (C-term) - Protein Information**Name** TRPC3

Synonyms TRP3

Function Forms a receptor-activated non-selective calcium permeant cation channel (PubMed:[8646775](#), PubMed:[9417057](#), PubMed:[9930701](#), PubMed:[20095964](#), PubMed:[30139744](#), PubMed:[29726814](#), PubMed:[35051376](#)). May be operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors (PubMed:[8646775](#)).

Cellular Location

Cell membrane; Multi-pass membrane protein

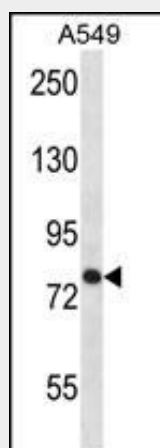
Tissue Location

Expressed predominantly in brain and at much lower levels in ovary, colon, small intestine, lung, prostate, placenta and testis

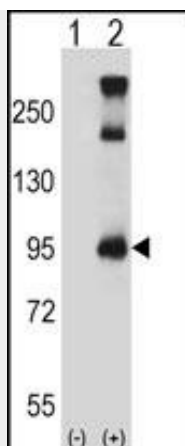
TRPC3 Antibody (C-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TRPC3 Antibody (C-term) - Images

TRPC3 Antibody (C-term) (Cat. #AP14579b) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the TRPC3 antibody detected the TRPC3 protein (arrow).



Western blot analysis of TRPC3 (arrow) using rabbit polyclonal TRPC3 Antibody (C-term) (Cat. #AP14579b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the TRPC3 gene.

TRPC3 Antibody (C-term) - Background

Thought to form a receptor-activated non-selective calcium permeant cation channel. 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, and by inositol-1,4,5-triphosphate receptors (ITPR) with bound IP3. May also be activated by internal calcium store depletion.

TRPC3 Antibody (C-term) - References

Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)
Smedlund, K., et al. Circ. Res. 106(9):1479-1488(2010)
Kiyonaka, S., et al. Yakugaku Zasshi 130(3):303-311(2010)
Nishida, M., et al. Yakugaku Zasshi 130(3):295-302(2010)
Shirakawa, H., et al. Yakugaku Zasshi 130(3):281-287(2010)