

**TRPC5 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP13769A**

**Specification**

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**TRPC5 Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">O9UL62</a>
Other Accession	<a href="#">O62852</a> , <a href="#">O9OX29</a> , <a href="#">NP_036603.1</a>
Reactivity	Human
Predicted	Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	111412
Antigen Region	254-283

**TRPC5 Antibody (N-term) - Additional Information**

**Gene ID** 7224

**Other Names**

Short transient receptor potential channel 5, TrpC5, Transient receptor protein 5, TRP-5, hTRP-5, hTRP5, TRPC5, TRP5

**Target/Specificity**

This TRPC5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 254-283 amino acids from the N-terminal region of human TRPC5.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**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**

TRPC5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**TRPC5 Antibody (N-term) - Protein Information**

**Name** TRPC5

## Synonyms TRP5

**Function** Forms a receptor-activated non-selective calcium permeant cation channel (PubMed:[16284075](#), PubMed:[38959890](#)). Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Has also been shown to be calcium-selective (By similarity). May also be activated by intracellular calcium store depletion. Mediates calcium-dependent phosphatidylserine externalization and apoptosis in neurons via its association with PLSCR1 (By similarity). Acts on distinct neuronal populations in the hypothalamus to regulate innate behaviors including feeding, anxiety (flight/fight/fear), socialization, and maternal care (By similarity).

## Cellular Location

Cell membrane; Multi-pass membrane protein

## Tissue Location

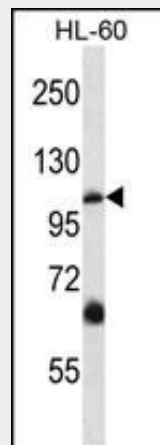
Expressed in brain with higher levels in fetal brain. Found in cerebellum and occipital pole

## TRPC5 Antibody (N-term) - Protocols

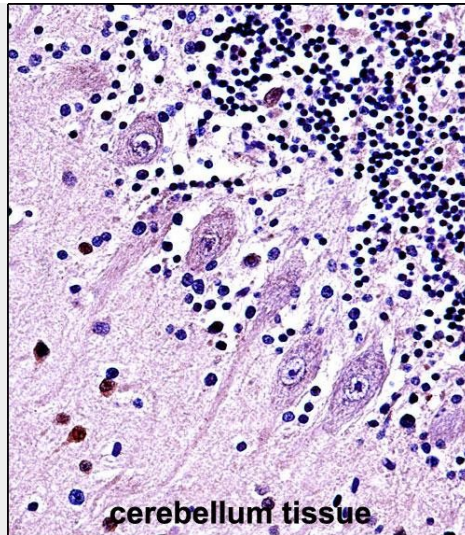
Provided below are standard protocols that you may find useful for product applications.

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

## TRPC5 Antibody (N-term) - Images



TRPC5 Antibody (N-term) (Cat. #AP13769a) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the TRPC5 antibody detected the TRPC5 protein (arrow).



TRPC5 Antibody (N-term) (Cat. #AP13769a) immunohistochemistry analysis in formalin fixed and paraffin embedded human cerebellum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of TRPC5 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **TRPC5 Antibody (N-term) - Background**

This gene belongs to the transient receptor family. It encodes one of the seven mammalian TRPC (transient receptor potential channel) proteins. The encoded protein is a multi-pass membrane protein and is thought to form a receptor-activated non-selective calcium permeant cation channel. The protein is active alone or as a heteromultimeric assembly with TRPC1, TRPC3, and TRPC4. It also interacts with multiple proteins including calmodulin, CABP1, enkurin, Na(+)-H+ exchange regulatory factor (NHERF), interferon-induced GTP-binding protein (MX1), ring finger protein 24 (RNF24), and SEC14 domain and spectrin repeat-containing protein 1 (SESTD1).

#### **TRPC5 Antibody (N-term) - References**

Al-Shawaf, E., et al. *Arterioscler. Thromb. Vasc. Biol.* 30(7):1453-1459(2010)  
Wong, C.O., et al. *Pflugers Arch.* 460(1):121-130(2010)  
Miehe, S., et al. *J. Biol. Chem.* 285(16):12426-12434(2010)  
Gross, S.A., et al. *J. Biol. Chem.* 284(49):34423-34432(2009)  
Everett, K.V., et al. *Hum. Genet.* (2009) In press :