

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

TRPC5 Antibody (N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	O9UL62
Other Accession	O62852 , O9OX29 , NP_036603.1
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 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. 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).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

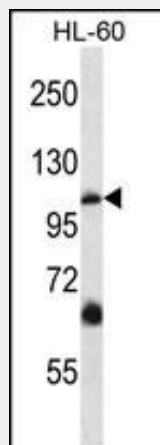
Expressed in brain with higher levels in fetal brain. Found in cerebellum and occipital pole

TRPC5 Antibody (N-term) - Protocols

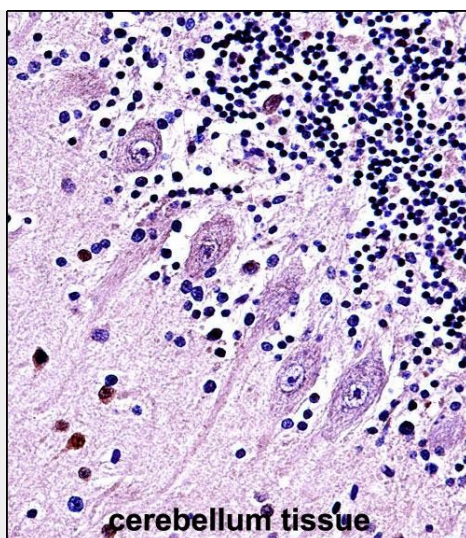
Provided below are standard protocols that you may find useful for product applications.

- [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)
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Everett, K.V., et al. Hum. Genet. (2009) In press :