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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	Q9UL62
Other Accession	O62852, Q9QX29, 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

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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

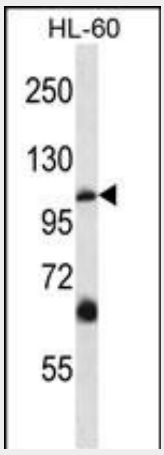
Tissue Location
Expressed in brain with higher levels in fetal brain. Found in cerebellum and occipital pole

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 Cytomety
- 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).

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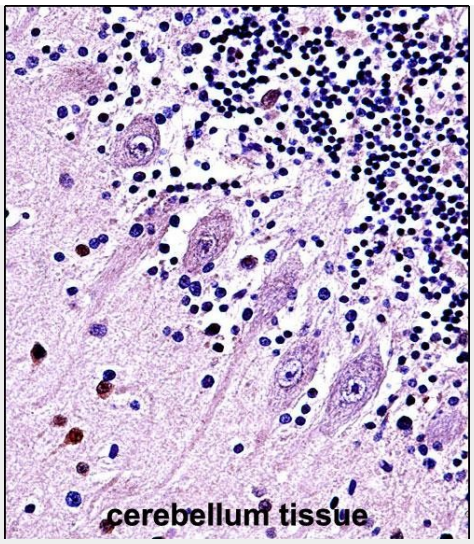

TRPC5 Antibody (N-term) (Cat. #AP13769a)immunohistochemistry analysis in formalin fixed and paraffin embedded human cerebellum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of TRPC5 Antibody (N-term) for immunohistochemistry. Clinical 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

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