

TRPC5 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13769A

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9UL62
Other Accession	O62852 , Q9QX29 , NP_036603.1
Reactivity	Human, Mouse
Predicted	Mouse, Rat, Rabbit, Chicken, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33871
Calculated MW	111412
Antigen Region	254-283

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~~1:100~500 E~~Use at an assay dependent concentration.
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.

Protein Information

Name	TRPC5
Synonyms	TRP5

Function	Forms a receptor-activated non-selective calcium permeant cation channel (PubMed: 16284075 , PubMed: 38959890 , PubMed: 37137991). 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

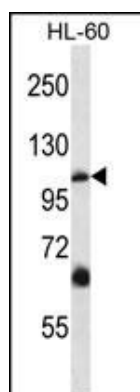
Background

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).

References

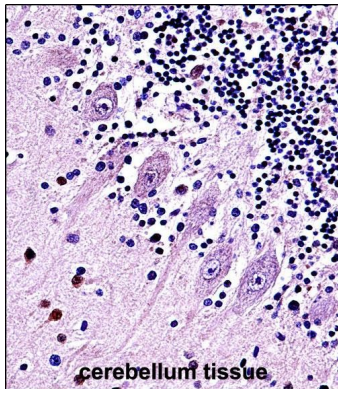
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Images



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.



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