

**TRPC5 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13769a****Specification**

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**TRPC5 Antibody (N-term) Blocking peptide - Product Information**Primary Accession [Q9UL62](#)**TRPC5 Antibody (N-term) Blocking peptide - 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**

The synthetic peptide sequence used to generate the antibody AP13769a was selected from the N-term region of TRPC5. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**TRPC5 Antibody (N-term) Blocking peptide - 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) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**TRPC5 Antibody (N-term) Blocking peptide - Images****TRPC5 Antibody (N-term) Blocking peptide - 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) Blocking peptide - 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 :