10320 Camino Santa Fe, Suite G
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CATSPER2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP18998b

Specification

CATSPER2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q96P56

CATSPER2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 117155

Other Names
Cation channel sperm-associated protein 2, CatSper2, CATSPER2

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.

CATSPER2 Antibody (C-term) Blocking Peptide - Protein Information

Name CATSPER2

Function
Voltage-gated calcium channel that plays a central role in calcium-dependent physiological responses essential for successful fertilization, such as sperm hyperactivation, acrosome reaction and chemotaxis towards the oocyte.

Cellular Location
Cell projection, cilium, flagellum membrane {ECO:0000250|UniProtKB:A2ARP9}; Multi-pass membrane protein {ECO:0000250|UniProtKB:A2ARP9}

Tissue Location
Testis-specific.

CATSPER2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

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CATSPER2 Antibody (C-term) Blocking Peptide - Images

CATSPER2 Antibody (C-term) Blocking Peptide - Background

Calcium ions play a primary role in the regulation ofsperm motility. This gene belongs to a family of putative cationchannels that are specific to spermatozoa and localize to theflagellum. The protein family features a single repeat with sixmembrane-spanning segments and a predicted calcium-selective poreregion. This gene is part of a tandem repeat on chromosome 15q15;the second copy of this gene is thought to be a pseudogene.Additional splice variants have been described but theirfull-length nature has not been determined.

CATSPER2 Antibody (C-term) Blocking Peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Lamesch, P., et al. Genomics 89(3):307-315(2007)Zhang, D., et al. J. Biol. Chem. 281(31):22332-22341(2006)Clapham, D.E., et al. Pharmacol. Rev. 57(4):451-454(2005)Quill, T.A., et al. Proc. Natl. Acad. Sci. U.S.A. 98(22):12527-12531(2001)