CATSPER1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12995a

Specification

CATSPER1 Antibody (N-term) Blocking peptide - Product Information

Primary Accession   Q8NEC5

CATSPER1 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 117144

Other Names
Cation channel sperm-associated protein 1, CatSper1, hCatSper, CATSPER1

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.

CATSPER1 Antibody (N-term) Blocking peptide - Protein Information

Name CATSPER1

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.
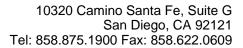
Cellular Location
Cell projection, cilium, flagellum membrane; Multi-pass membrane protein.

CATSPER1 Antibody (N-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.

CATSPER1 Antibody (N-term) Blocking peptide - References

 Li, H., et al. Fertil. Steril. 92(3):1141-1146(2009)Avenarius, M.R., et al. Am. J. Hum. Genet. 84(4):505-510(2009)Zhang, D., et al. J. Biol. Chem. 281(31):22332-22341(2006)Li, H.G., et al. Asian J. Androl. 8(3):301-306(2006)Clapham, D.E., et al. Pharmacol. Rev. 57(4):451-454(2005)

Note=Specifically located in the principal piece of sperm tail

Tissue Location
Testis-specific.

CATSPER1 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)