

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

Pore-forming subunit of the CatSper complex, a sperm-specific 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 {ECO:0000250|UniProtKB:Q91ZR5}. Note=Specifically located in the principal piece of the 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](#)

CATSPER1 Antibody (N-term) Blocking peptide - Images

CATSPER1 Antibody (N-term) Blocking peptide - Background

Calcium ions play a primary role in the regulation of sperm motility. This gene belongs to a family of putative cation channels that are specific to spermatozoa and localize to the flagellum. The protein family features a single repeat with six membrane-spanning segments and a predicted calcium-selective pore region.

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)