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# 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 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)