

CATSPER1 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12995a

Specification

CATSPER1 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	Q8NEC5
Other Accession	NP_444282.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	36-65

CATSPER1 Antibody (N-term) - Additional Information

Gene ID 117144

Other Names

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

Target/Specificity

This CATSPER1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 36-65 amino acids from the N-terminal region of human CATSPER1.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CATSPER1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CATSPER1 Antibody (N-term) - 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 {ECO:0000250|UniProtKB:Q91ZR5}. Note=Specifically located in the principal piece of the sperm tail.

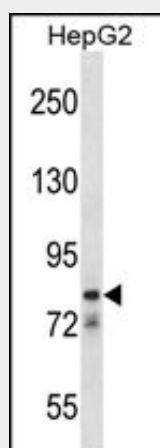
Tissue Location

Testis-specific.

CATSPER1 Antibody (N-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CATSPER1 Antibody (N-term) - Images

CATSPER1 Antibody (N-term) (Cat. #AP12995a) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the CATSPER1 antibody detected the CATSPER1 protein (arrow).

CATSPER1 Antibody (N-term) - 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) - 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)