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CATSPER2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18998b

Specification

CATSPER2 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q96P56
Other Accession	NP_742095.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**62041**
Antigen Region	**472-500**

CATSPER2 Antibody (C-term) - Additional Information

Gene ID 117155

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

Target/Specificity
This CATSPER2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 472-500 amino acids from the C-terminal region of human CATSPER2.

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
CATSPER2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CATSPER2 Antibody (C-term) - 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}

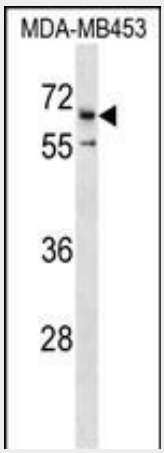
Tissue Location
Testis-specific.

CATSPER2 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CATSPER2 Antibody (C-term) - Images



CATSPER2 Antibody (C-term) (Cat. #AP18998b) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the CATSPER2 antibody detected the CATSPER2 protein (arrow).

CATSPER2 Antibody (C-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. 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 their full-length nature has not been determined.

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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)
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