

For Research Use Only

CATSPER1 Polyclonal antibody, PBS Only

Catalog Number: 12722-1-PBS



Basic Information

Catalog Number: 12722-1-PBS	GenBank Accession Number: BC032950	Purification Method: Antigen affinity purification
Concentration: 1 mg/ml	GeneID (NCBI): 117144	
Source: Rabbit	UNIPROT ID: Q8NEC5	
Isotype: IgG	Full Name: cation channel, sperm associated 1	
Immunogen Catalog Number: AG3417	Calculated MW: 780 aa, 90 kDa	
	Observed MW: 90 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

Background Information

Cation channel sperm-associated protein 1 (CATSPER1) belongs to a family of four sperm-specific tetrameric voltage-gated cation channels that are highly conserved in humans and mice (PMID: 12402840; 12932298). Definitive evidence that CatSper1 functions as a voltage-gated calcium channel to facilitate hyperactivated sperm motility came from whole-cell patch-clamp measurements of spermatozoa (PMID: 16467839). CATSPER1 channel currents were potentiated in response to intracellular alkalinization, increasing the concentration of intraflagellar calcium and thereby inducing hyperactivity.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

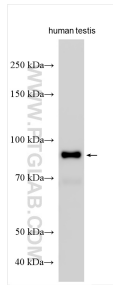
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Selected Validation Data



human testis lysates were subjected to SDS PAGE followed by western blot with 12722-1-AP (CATSPER1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12722-1-PBS in a different storage buffer formulation.