

---

## CATSPER3 Rabbit pAb

Catalog Number: bs-7136R

Target Protein: CATSPER3

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000)

Reactivity: Mouse, Rat (predicted:Human, Rabbit)

Predicted MW: 46 kDa

Entrez Gene: 347732

Swiss Prot: Q86XQ3

Source: KLH conjugated synthetic peptide derived from human CATSPER3: 201-300/398.

Purification: affinity purified by Protein A

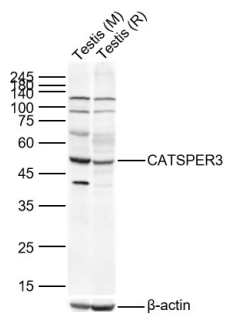
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** CatSper (cation channel, sperm associated proteins) are ion transport proteins located on the surface of sperm cells in the principal piece of the sperm tail. CatSper are vital to sperm motility, fertilization and cAMP-mediated calcium influx in sperm. There are four CatSper proteins in mammalian sperm, namely CatSper (or CatSper1), CatSper2, CatSper3 and CatSper4. CatSper proteins contain a single, six-transmembrane-spanning segment and exhibit the voltage-dependent Ca<sup>2+</sup> channel four-repeat structure. CatSper proteins are believed to assemble into a heterotetrameric complex, forming an alkalinization-activated Ca<sup>2+</sup>-selective channel. Mutations in any of the genes encoding CatSper family proteins can result in male infertility. CatSper3 plays an important role in the hyperactivated motility of sperm cells, a process that is required in the preparation of sperm for fertilization.

### VALIDATION IMAGES

---



Sample: Lane 1: Mouse Testis Lysates Lane 2: Rat Testis Lysates Primary: Anti-CATSPER3 (bs-7136R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 46kDa  
Observed band size: 46kDa

## PRODUCT SPECIFIC PUBLICATIONS

**[IF=8.071]** Wen-bo Yuan. et al. TET1 mediated male reproductive toxicity induced by Bisphenol A through Catsper-Ca<sup>2+</sup> signaling pathway. Environ Pollut. 2022 Mar;296:118739 WB ; Mouse . 34953956

**[IF=4.5]** Xiangli Li. et al. Sodium arsenite impairs sperm quality via downregulating the ZMYND15 and ZMYND10. ENVIRON TOXICOL. 2024 May;; WB ; Rat . 38798119