

# Product datasheet for TA349753

# **CATSPER3 Rabbit Polyclonal Antibody**

## **Product data:**

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 500-2000 WB positive control: Mouse testis tissue
Reactivity:	Human, Mouse
Host:	Rabbit
lsotype:	lgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human CATSPER3
Formulation:	pH7.4 PBS, 0.05% NaN3, 40% Glyceroln
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	46 kDa
Gene Name:	cation channel sperm associated 3
Database Link:	<u>NP_821138</u> <u>Entrez Gene 347732 Human</u> <u>Q86XQ3</u>

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### **GRIGENE** CATSPER3 Rabbit Polyclonal Antibody – TA349753

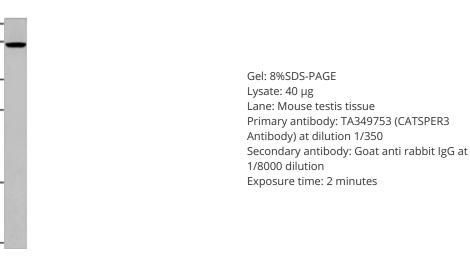
Background:CatSpers (cation channel, sperm associated proteins) are ion transport proteins located on<br/>the surface of sperm cells in the principal piece of the sperm tail. CatSpers are vital to sperm<br/>motility, fertilization and cAMP-mediated calcium influx in sperm. There are four CatSper<br/>proteins in mammalian sperm, namely CatSper (or CatSper1), CatSper2, CatSper3 and<br/>CatSper4. CatSper proteins contain a single, six-transmembrane-spanning segment and<br/>exhibit the voltage-dependent Ca2+ channel four-repeat structure. CatSper proteins are<br/>believed to assemble into a heterotetrameric complex, forming an alkalinization-activated<br/>Ca2+-selective channel. Mutations in any of the genes encoding CatSper family proteins can<br/>result in male infertility. CatSper3 plays an important role in the hyperactivated motility of<br/>sperm cells, a process that is required in the preparation of sperm for fertilization.

Synonyms: CACRC

**Protein Families:** 

Druggable Genome, Ion Channels: Other, Transmembrane

### **Product images:**



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