

Product datasheet for **TA349753S**

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
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human CATSPER3
Formulation:	pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol
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:	NP_821138 Entrez Gene 347732 Human Q86XQ3



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Background:

CatSpers (cation channel, sperm associated proteins) are ion transport proteins located on the surface of sperm cells in the principal piece of the sperm tail. CatSpers 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 Ca²⁺ channel four-repeat structure. CatSper proteins are believed to assemble into a heterotetrameric complex, forming an alkalization-activated Ca²⁺-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.

Synonyms:

CACRC

Protein Families:

Druggable Genome, Ion Channels: Other, Transmembrane

Product images:

Gel: 8%SDS-PAGE

Lysate: 40 µg

Lane: Mouse testis tissue

Primary antibody: [TA349753] (CATSPER3
Antibody) at dilution 1/350Secondary antibody: Goat anti rabbit IgG at
1/8000 dilution

Exposure time: 2 minutes