

Recombinant Human CATSPER3

Catalog No: #GP11326



Package Size: #GP11326-1 100ug

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Recombinant Human CATSPER3
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 299-398 amino acids of human cation channel, sperm associated 3
Target Name	cation channel, sperm associated 3
Other Names	CACRC
Accession No.	Swissprot:Q86XQ3Gene Accession:BC110384
Uniprot	Q86XQ3
GenID	347732;
Storage	-20~-80°C, pH 7.6 PBS

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 Ca²⁺ channel four-repeat structure. CatSper proteins are believed to assemble into a heterotetrameric complex, forming an alkalinization-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.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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