

Anti-CATSPERB Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Rat,Dog)
Molecular Weight:	Theoretical: 127 kDa. Actual: 127 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: Testis (Mouse) Lysate at 40 µg Primary: Anti-CATSPERB (TMAB-03699) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 127 kD Observed band size: 127 kD
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human CATSPERB
Antigen Species:	Human
Gene ID:	79820
Uniprot ID:	Q9H7T0

Research Background

CatSper proteins are ion transport proteins located on the surface of sperm cells in the principal piece of the sperm tail. CatSper proteins 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 are believed to assemble into a heterotetrameric complex, forming an alkalization-activated Ca²⁺-selective channel. CatSper β is a multipass membrane protein that functions as an auxiliary protein of the CatSper channel. It contains a large extracellular domain and a number of N-glycosylation sites. CatSper β specifically interacts with CatSper1 and through this interaction plays an important role in the hyperactivated motility of sperm cells, a process that is required in the preparation of sperm for fertilization.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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