



CTSR1 Monoclonal Antibody

Catalog No	BYmab-05438
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	CATSPER1
Protein Name	Cation channel sperm-associated protein 1 (CatSper1) (hCatSper)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	CTSR1 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	human:85kD Mouse 65-70kD
Cell Pathway	Cell projection, cilium, flagellum membrane ; Multi-pass membrane protein . Specifically located in the principal piece of the sperm tail. .
Tissue Specificity	Testis-specific.
Function	developmental stage:Expressed meiotically and poszt-meiotically.,function:Voltage-gated calcium channel that plays a central role in sperm cell hyperactivation. Controls calcium entry to mediate the hyperactivated motility, a step needed for sperm motility which is essential late in the preparation of sperm for fertilization. Activated by intracellular alkalinization.,induction:Down-regulated in patients lacking sperm motility.,similarity:Belongs to the cation channel sperm-associated family.,subunit:Heterotetramer; possibly composed of CATSPER1, CATSPER2, CATSPER3 and CATSPER4 (Potential). Component of a complex, at least composed of CATSPER1, HSPA1B and CATSPERB. Interacts with CATSPER3 and CATSPER4 (By similarity). Interacts with Ca(v)3.3/CACNA1I, leading to suppress T-type calcium channel activity.,tissue specificity:Testis-specific.

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Background

Calcium ions play a primary role in the regulation of sperm motility. This gene belongs to a family of putative cation channels that are specific to spermatozoa and localize to the flagellum. The protein family features a single repeat with six membrane-spanning segments and a predicted calcium-selective pore region. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images