

## Anti-CATSPER Polyclonal Antibody 2

### Product Details

Ig Type:	IgG
Reactivity:	Human,Rat,Mouse
Molecular Weight:	Theoretical: 90 kDa. Actual: 90-95 kDa.
Purification:	Protein A purified

### Applications

1. Sample:  
U2OS (Human) Cell Lysate at 30 µg  
Primary: Anti-CATSPER (TMAB-03695) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 90 kD  
Observed band size: 90 kD

2. Sample:  
Lane 1: Human MCF-7 cell lysates  
Lane 2: Human K562 cell lysates  
Primary: Anti-CATSPER (TMAB-03695) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 90 kDa  
Observed band size: 95 kDa

Verified Activity: 3. Paraformaldehyde-fixed, paraffin embedded (mouse lung); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (CATSPER) Polyclonal Antibody, Unconjugated (TMAB-03695) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.  
4. Paraformaldehyde-fixed, paraffin embedded (human lung); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (CATSPER) Polyclonal Antibody, Unconjugated (TMAB-03695) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.  
5. Paraformaldehyde-fixed, paraffin embedded (rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (CATSPER) Polyclonal Antibody, Unconjugated (TMAB-03695) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

Application: WB,IHC-P,IHC-Fr,IF

## A DRUG SCREENING EXPERT

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Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

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### 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.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human CATSPER

Antigen Species: Human

Gene ID: 117144

Uniprot ID: Q8NEC5

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### Research Background

CATSPER1 is a voltage-gated calcium channel that plays a central role in sperm cell hyperactivation. It 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. It is activated by intracellular alkalinization.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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