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# Anti-CATSPER1 Antibody

Catalog # AP60149

## Product Information

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|---|---|
| **Application** | WB, IF/IC |
| **Primary Accession** | Q8NEC5 |
| **Reactivity** | Human, Mouse, Rat, Mk |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 90091 |

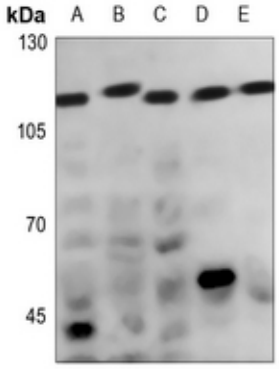
## Additional Information

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|---|---|
| **Gene ID** | 117144 |
| **Other Names** | Cation channel sperm-associated protein 1; CatSper1; hCatSper |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CATSPER1. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/500 - 1/1000) IF/IC~~N/A |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

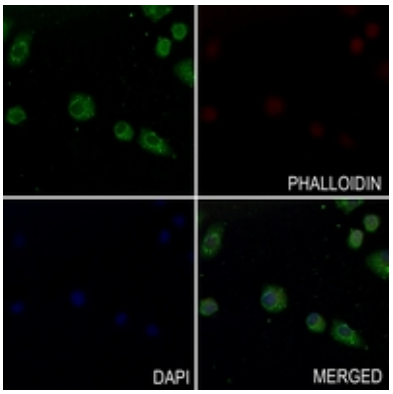
## Protein Information

| | |
|---|---|
| **Name** | CATSPER1 |
| **Function** | Pore-forming subunit of the CatSper complex, a sperm-specific voltage-gated calcium channel that plays a central role in calcium- dependent physiological responses essential for successful fertilization, such as sperm hyperactivation, acrosome reaction and chemotaxis towards the oocyte. |
| **Cellular Location** | Cell projection, cilium, flagellum membrane; Multi-pass membrane protein {ECO:0000250\|UniProtKB:Q91ZR5}. Note=Specifically located in the principal piece of the sperm tail. |
| **Tissue Location** | Testis-specific. |

## Images




Western blot analysis of CATSPER1 expression in Hela (A), DLD (B), A375 (C), mouse testis (D), rat testis (E) whole cell lysates. (Predicted band size: 90 kD; Observed band size: 110 kD)




Immunofluorescent analysis of CATSPER1 staining in SGC7901 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.