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**Product Name: KCNN4 Mouse Monoclonal Antibody****Catalog #: AMM82732**

For research use only.

**Summary**

|                      |   |
|----------------------|---|
| <b>Description</b>   | Mouse monoclonal Antibody   |
| <b>Host</b>          | Mouse   |
| <b>Application</b>   | WB,ELISA,FC   |
| <b>Reactivity</b>    | Human   |
| <b>Conjugation</b>   | Unconjugated  |
| <b>Modification</b>  | Unmodified  |
| <b>Isotype</b>       | Mouse IgG1  |
| <b>Clonality</b>     | Monoclonal  |
| <b>Form</b>          | Liquid  |
| <b>Concentration</b> | 1mg/ml  |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>      | Ice bags  |
| <b>Buffer</b>        | Purified antibody in PBS with 0.05% sodium azide                            |
| <b>Purification</b>  | Affinity Purification   |

**Application**

|                         |   |
|-------------------------|---|
| <b>Dilution Ratio</b>   | WB 1:500-1:2000,ELISA 1:5000-1:20000,FC 1:200-1:400 |
| <b>Molecular Weight</b> | 47.6kDa   |

**Antigen Information**

|                          |  |
|--------------------------|--|
| <b>Gene Name</b>         | KCNN4  |
| <b>Alternative Names</b> | IK; IK1; SK4; DHS2; KCA4; hSK4; IKCA1; hKCa4; KCa3.1; hIKCa1                           |
| <b>Gene ID</b>           | 3783.0   |
| <b>SwissProt ID</b>      | O15554   |
| <b>Immunogen</b>         | Purified recombinant fragment of human KCNN4 (AA: extra 286-427) expressed in E. Coli. |

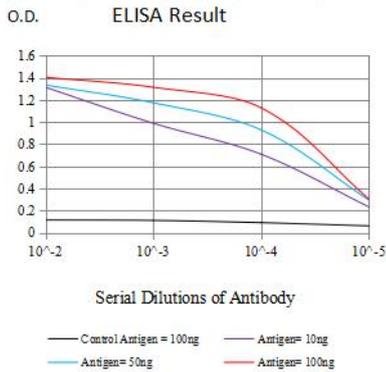
**Background**

The protein encoded by this gene is part of a potentially heterotetrameric voltage-independent potassium channel that is activated by intracellular calcium. Activation is followed by membrane hyperpolarization, which promotes calcium influx. The encoded protein may be part of the predominant calcium-activated potassium channel in T-lymphocytes. This gene is similar to

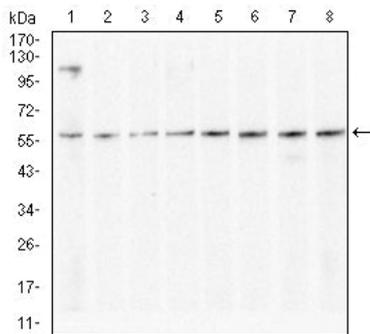
other KCNN family potassium channel genes, but it differs enough to possibly be considered as part of a new subfamily.

## Research Area

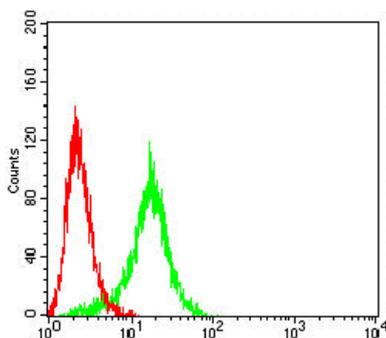
## Image Data



Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



Western blot analysis using KCNN4 mouse mAb against HepG2 (1), Jurkat (2), Hela (3), MCF-7 (4), HEK293 (5), SW480 (6), HT-29 (7), and SW620 (8) cell lysate.



Flow cytometric analysis of THP-1 cells using KCNN4 mouse mAb (green) and negative control (red).