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# Anti-Kv3.4 Antibody

Catalog # AP51299

## Product Information

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|---|---|
| **Application** | WB, IHC, IF/IC |
| **Primary Accession** | Q03721 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 69767 |

## Additional Information

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| **Gene ID** | 3749 |
| **Other Names** | Potassium voltage-gated channel subfamily C member 4; KSHIIIC; Voltage-gated potassium channel subunit Kv3.4 |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Kv3.4. The exact sequence is proprietary. |
| **Dilution** | WB~~ 1:1000 IHC~~1:100~500 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

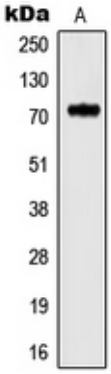
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|---|---|
| **Name** | KCNC4 ( HGNC:6236) |
| **Function** | Voltage-gated potassium channel that opens in response to the voltage difference across the membrane, forming a potassium-selective channel through which potassium ions pass in accordance with their electrochemical gradient (PubMed:7993631). The channel displays rapid activation and inactivation kinetics (PubMed:7993631). |
| **Cellular Location** | Membrane; Multi-pass membrane protein. |

## References

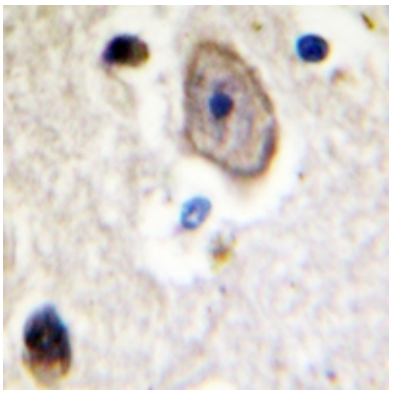
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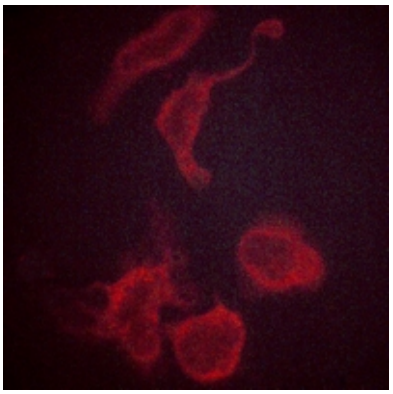
## Images




Western blot analysis of Kv3.4 expression in rat brain (A) whole cell lysates. (Predicted band size: 69 kD; Observed band size: 70 kD)



Immunohistochemical analysis of Kv3.4 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Kv3.4 staining in HeLa 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 AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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