# Anti-Phospho-Kv3.4 (S15) antibody

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| **Description** | Rabbit polyclonal to Phospho-Kv3.4 (S15). |

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| **Model** | STJ91317 |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse |
| **Applications** | ELISA, IF, IHC |
| **Immunogen** | Synthesized peptide derived from human Kv3.4 around the phosphorylation site of S15. |
| **Immunogen Region** | 1-80 aa |
| **Gene ID** | 3749 |
| **Gene Symbol** | KCNC4 |
| **Dilution range** | IHC 1:100-1:300IF 1:200-1:1000ELISA 1:5000 |
| **Specificity** | Phospho-Kv3.4 (S15) Polyclonal Antibody detects endogenous levels of Kv3.4 protein only when phosphorylated at S15. |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Note** | For Research Use Only (RUO). |
| **Protein Name** | Potassium voltage-gated channel subfamily C member 4 KSHIIIC Voltage-gated potassium channel subunit Kv3.4 |
| **Molecular Weight** | 70 kDa |
| **Clonality** | Polyclonal |

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| **Conjugation** | Unconjugated |
| **Isotype** | IgG |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Concentration** | 1 mg/ml |
| **Storage Instruction** | Store at -20°C, and avoid repeat freeze-thaw cycles. |
| **Database Links** | HGNC:6236OMIM:176265 |
| **Alternative Names** | Potassium voltage-gated channel subfamily C member 4 KSHIIIC Voltage-gated potassium channel subunit Kv3.4 |
| **Function** | This protein mediates the voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient. |
| **Sequence and Domain Family** | The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position.; The tail may be important in modulation of channel activity and/or targeting of the channel to specific subcellular compartments. |
| **Cellular Localization** | Membrane. Multi-pass membrane protein. |
| **Post-translational Modifications** | Phosphorylation of serine residues in the inactivation gate inhibits rapid channel closure. |