# Anti-IK1 antibody

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| **Description** | Rabbit polyclonal to IK1. |

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| **Model** | STJ93663 |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Applications** | ELISA, WB |
| **Immunogen** | Synthesized peptide derived from human IK1 |
| **Immunogen Region** | 300-380 aa, C-terminal |
| **Gene ID** | 3783 |
| **Gene Symbol** | KCNN4 |
| **Dilution range** | WB 1:500-1:2000ELISA 1:20000 |
| **Specificity** | IK1 Polyclonal Antibody detects endogenous levels of IK1 protein. |
| **Tissue Specificity** | Widely expressed in non-excitable tissues. |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Note** | For Research Use Only (RUO). |
| **Protein Name** | Intermediate conductance calcium-activated potassium channel protein 4 SK4 SKCa 4 SKCa4 IKCa1 IK1 KCa3.1 KCa4 Putative Gardos channel |
| **Molecular Weight** | 48 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:6293OMIM:602754 |
| **Alternative Names** | Intermediate conductance calcium-activated potassium channel protein 4 SK4 SKCa 4 SKCa4 IKCa1 IK1 KCa3.1 KCa4 Putative Gardos channel |
| **Function** | Forms a voltage-independent potassium channel that is activated by intracellular calcium . Activation is followed by membrane hyperpolarization which promotes calcium influx. Required for maximal calcium influx and proliferation during the reactivation of naive T-cells. The channel is blocked by clotrimazole and charybdotoxin but is insensitive to apamin . |
| **Cellular Localization** | Cell membrane |
| **Post-translational Modifications** | Phosphorylation at His-358 by NDKB activates the channel, and conversely it's dephosphorylation by PHPT1 inhibits the channel. |