



## Product Information Sheet

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### **Polyclonal Anti-KCNN4 (KCA3.1) (Magnetic Bead Conjugate)**

**Catalogue No.** PA1047-M

**Lot No.** 01010120147120

**Ig type:** rabbit IgG

**Size:** 100µg/vial

**Specificity**

Human, rat.

No cross reactivity with other proteins.

**Recommended application**

ImmunoPrecipitation (IP)

**Immunogen**

A synthetic peptide corresponding to a sequence mapping at the N-terminal of human KCNN4 (11-28 aa), different to the rat and mouse sequence by one amino acid.

**Purity**

Immunogen affinity purified.

**Contents**

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN<sub>3</sub>.

**Storage**

Store at 4°C for frequent use.

**Description**

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

### **BACKGROUND**

Intermediate conductance calcium-activated potassium channel protein 1 (KCNN4,Kca3.1) 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. KCNN4 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.

### **REFERENCE**

1. Joiner WJ, Wang LY, Tang MD, Kaczmarek LK. Joiner,W.J., Wang,L.Y., Tang,M.D. and Kaczmarek,L.K. hSK4, a member of a novel subfamily of calcium-activated potassium channels. Proc. Natl. Acad. Sci. U.S.A.1997; 94 (20), 11013-11018.
2. Hoffman JF, Joiner W, Nehrke K, Potapova O, Foye K, Wickrema A. The hSK4 (KCNN4) isoform is the Ca<sup>2+</sup>-activated K<sup>+</sup> channel (Gardos channel) in human red blood cells. Proc. Natl. Acad. Sci. U.S.A.2003; 100 (12), 7366-7371.
3. Jones HM, Hamilton KL, Papworth GD, Syme CA, Watkins SC, Bradbury NA, Devor DC. Role of the NH<sub>2</sub> terminus in the assembly and trafficking of the intermediate conductance Ca<sup>2+</sup>-activated K<sup>+</sup> channel hIK1. J. Biol. Chem.2004; 279 (15), 15531-15540.