

## Recombinant Mouse Kcnp2 Protein, Myc/DDK-tagged

**Cat. No.** Kcnp2-3658M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Purified recombinant protein of mouse full-length Kv channel-interacting protein 2 (Kcnp2), transcript variant a, with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>This gene encodes a member of the voltage-gated potassium channel-interacting protein (KCNP) family. KCNP family members are small calcium binding proteins that commonly exhibit unique variation at their N-termini, and which modulate A-type potassium channels. This gene is predominantly expressed in the adult heart, and to a lesser extent in the brain. Disruption of this gene is associated with susceptibility to cardiac arrhythmias and lack of transient outward potassium current in ventricular myocytes, and downregulated expression is associated with cardiac hypertrophy. The encoded protein has also been implicated as a repressor of immune response. Alternative splicing results in multiple transcript variants.</p> |
| <b>Molecular Mass</b>   | 31 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| <b>Storage</b>        | Store at -80 centigrade after receiving vials.        |
| <b>Concentration</b>  | >50 µg/mL as determined by microplate BCA method      |
| <b>Storage Buffer</b> | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol. |

## GENE INFORMATION

|                        |                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Kcnip2 Kv channel-interacting protein 2 [ Mus musculus (house mouse) ]                                                                                                           |
| <b>Official Symbol</b> | Kcnip2                                                                                                                                                                           |
| <b>Synonyms</b>        | Kcnip2; Kv channel-interacting protein 2; KChI; KChIP2; Kv channel-interacting protein 2; A-type potassium channel modulatory protein 2; potassium channel-interacting protein 2 |
| <b>Gene ID</b>         | 80906                                                                                                                                                                            |
| <b>mRNA Refseq</b>     | NM_145703                                                                                                                                                                        |
| <b>Protein Refseq</b>  | NP_663749                                                                                                                                                                        |
| <b>UniProt ID</b>      | Q9JJ69                                                                                                                                                                           |

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