

## Active Recombinant Human KIRREL Protein, His-tagged

**Cat. No.** KIRREL-719H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant human KIRREL (NP_060710.3) (Met1-Leu493) was expressed with a polyhistidine tag at the C-terminus.                                                                                                                                             |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                      |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>        | 1-493 a.a.                                                                                                                                                                                                                                                 |
| <b>Predicted N Terminal</b> | Gln 17                                                                                                                                                                                                                                                     |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH 7.4, 5% ~ 8% trehalose and mannitol.                                                                                                                                                                                      |
| <b>Bio-activity</b>         | Measured by the ability of the immobilized protein to support the adhesion of MS1 mouse pancreatic islet endothelial cells. When cells are added to KIRREL coated plates (15 µg/mL, 100 µL/well), >20% will adhere specifically after 90 minutes at 37 °C. |
| <b>Molecular Mass</b>       | The recombinant human KIRREL consists 488 amino acids and predicts a molecular mass of 53.5 kDa.                                                                                                                                                           |
| <b>Endotoxin</b>            | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                            |
| <b>Purity</b>               | >95 % as determined by SDS-PAGE.                                                                                                                                                                                                                           |

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|                       |                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -70°C.                                                                                                      |
| <b>Storage</b>        | Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                      |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |

## GENE INFORMATION

|                            |                                                                                                                                                                                                                    |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | KIRREL kin of IRRE like (Drosophila) [ Homo sapiens ]                                                                                                                                                              |
| <b>Official Symbol</b>     | KIRREL                                                                                                                                                                                                             |
| <b>Synonyms</b>            | KIRREL; kin of IRRE like (Drosophila); kin of IRRE-like protein 1; NEPH1; nephrin like protein 1; nephrin related; nephrin-like protein 1; kin of irregular chiasm-like protein 1; FLJ10845; MGC129542; MGC129543; |
| <b>Gene ID</b>             | 55243                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>         | NM_018240                                                                                                                                                                                                          |
| <b>Protein Refseq</b>      | NP_060710                                                                                                                                                                                                          |
| <b>MIM</b>                 | 607428                                                                                                                                                                                                             |
| <b>UniProt ID</b>          | Q96J84                                                                                                                                                                                                             |
| <b>Chromosome Location</b> | 1q21-q25                                                                                                                                                                                                           |

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**Pathway**

Cell-Cell communication, organism-specific biosystem; Nephrin interactions, organism-specific biosystem; Nephrin/Neph1 signaling in the kidney podocyte, organism-specific biosystem;

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