

Datasheet for ABIN7320308  
**KIRREL3 Protein (His tag)**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	100 µg
Target:	KIRREL3
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This KIRREL3 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Mouse KIRREL3/NEPH2 Protein (His Tag)(Active)
Sequence:	Met 1-Ala 535
Characteristics:	A DNA sequence encoding the mouse KIRREL3 (Q8BR86-1) extracellular domain (Met 1-Ala 535) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 96 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by the ability of the immobilized protein to support the adhesion of MS1 mouse pancreatic islet endothelial cells. When cells are added to mouse KIRREL3 coated plates (15 µg/mL, 100 µL/well), > 40% will adhere specifically after 90 minutes at 37 °C.

## Target Details

Target:	KIRREL3
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## Target Details

Alternative Name: KIRREL3/NEPH2 ([KIRREL3 Products](#))

Background: Background: Kin of IRRE-like protein 3 (KIRREL3) also known as nin of irregular chiasm-like protein 3 or nephrin-like protein 2 (NEPH2) is a member of the nephrin-like protein family of transmembrane proteins, which includes NEPH1 (KIRREL) and NEPH3 (KIRREL2). KIRREL3/NEPH2 is expressed in fetalv and adult brain, and also in podocytes of kidney glomeruli. The cytoplasmic domains of KIRREL3/NEPH2 interact with the C-terminus of podocin, also expressed in the podocytes, cells involved in ensuring size- and charge-selective ultrafiltration. Mutations in KIRREL3/NEPH2 are associated with mental retardation autosomal dominant type 4. KIRREL3/NEPH2 expression is turned on in migrating nucleogenesis of the pontine nucleus (PN) neurons only after they enter the presumptive nuclear region. KIRREL3/NEPH2 knockdown disrupted the nuclear organization of PN presumably by changing the migratory behavior of PN neurons inside the nuclear region. Moreover, overexpression of the cytoplasmic region of KIRREL3, which can sequester intracellular signaling of endogenous KIRREL3, resulted in similar phenotypes. Overall, these results suggest KIRREL3 is involved in the nucleogenesis of the PN through the control of neuronal migration inside the nucleus. Synonym: 1500010020Rik,2900036G11Rik,mKIAA1867,NEPH2,SST4

Molecular Weight: 57.5 kDa

## Application Details

Restrictions: For Research Use only

## Handling

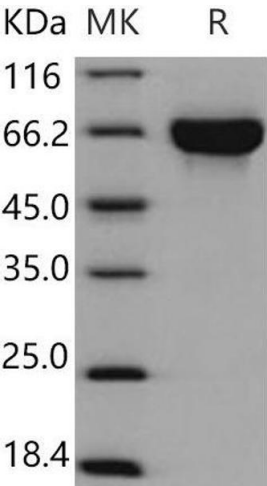
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.