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KIRREL Protein (His tag)



Image



Overview

Quantity:	100 μg
Target:	KIRREL (NEPH1)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This KIRREL protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse KIRREL1/NEPH1 Protein (His Tag)(Active)
Sequence:	Met 1-Leu 525
Characteristics:	A DNA sequence encoding the extracellular domain of mouse KIRREL1 (NP_570937.2) (Met 1- Leu 525) was expressed with a C-terminal polyhistidine tag.
Purity:	> 98 % 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 (ATCC: CRL2279). When cells are added to coated plates (30 μ g/mL, 100 μ L/well), > 40% cells will adhere specifically after 90 minutes at 37 °C.

Target Details

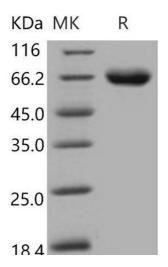
Target:	KIRREL (NEPH1)
rarget.	MINICE (NEI III)

Target Details

Alternative Name:	KIRREL1/NEPH1 (NEPH1 Products)
Background:	Background: NEPH1 (KIRREL1) belongs to a family of three closely related transmembrane
	proteins of the Ig superfamily with a structure similar to that of nephrin. All three Neph proteins
	share a conserved podocin-binding motif, mutation of a centrally located tyrosine residue
	dramatically lowers the affinity of Neph1 for podocin. Neph1 triggers AP-1 activation similarly
	to nephrin but requires the presence of Tec family kinases for efficient transactivation. Neph1
	consists of a signal peptide, five Ig-like C2-type domains with the middle domain overlapping
	with a PKD-like domain, an RGD sequence, a transmembrane domain and a cytoplasmic tail,
	which is expressed in slit diaphragm domains of podocytes and in vertebrate and invertebrate
	nervous systems. Neph1 is abundantly expressed in the kidney, specifically expressed in
	podocytes of kidney glomeruli, and plays a significant role in the normal development and
	function of the glomerular permeability. Neph1 interacts with nephrin in vitro and in vivo, and
	able to stimulate transcriptional activation in a model system, such as the activation the
	transcription factor AP-1 via the stimulation of a MAPK module. Neph1 is crucial for the
	integrity of the slit diaphragm, as Neph1 gene knockout mice results in effacement of
	glomerular podocytes, heavy proteinuria, and early postnatal death.
	Synonym: Kin of IRRE-like protein 1,Kin of irregular chiasm-like protein 1,Nephrin-like protein
	1,Kirrel1,Neph1
Molecular Weight:	53.8 kDa
NCBI Accession:	NP_570937
Pathways:	Regulation of Actin Filament Polymerization
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.

Images



Western Blotting

Image 1.