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Product datasheet for TP727025

Kirrel Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Kirrel1/Neph1(C-6His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Leu48-Leu525
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS,pH7.4.
Note:	Recombinant Mouse Kin of IRRE-like protein 1 is produced by our Mammalian expression system and the target gene encoding Leu48ÂLeu525 is expressed with a 6His tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	170643
UniProt ID:	Q80W68
Synonyms:	Kin of IRRE-like protein 1;Kin of irregular chiasm-like protein 1;Nephrin-like protein 1;Kirrel1;Neph1
Summary:	Kin of irregular chiasm-like protein 1(Kirrel1), also known as Nephrin-like protein 1(Neph1), belongs to the immunoglobulin superfamily. Kirrel1 plays a significant role in the normal development and function of the glomerular permeability. It is a signaling protein that needs the presence of TEC kinases to fully trans-activate the transcription factor AP-1. The knockout of this gene could result in perinatal lethality accompanied by proteinuria, and effacement of glomerular podocytes. Kirrel1 is abundantly expressed in kidney and specifically expressed in podocytes of kidney glomeruli. Itsâ€™ subunit interacts with TJP1/ZO-1 and with NPHS2/podocin (via the C-terminus) and interacts with NPHS1/nephrin (via the Ig-like domains). This interaction is dependent on KIRREL glycosylation. Kirrel1 also interacts when tyrosine-phosphorylated with GRB2.

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