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KIRREL Blocking Peptide(C-term)

Synthetic peptide
Catalog # BP19861b

Specification

KIRREL Blocking Peptide(C-term) - Product Information

Primary Accession	Q96J84
Other Accession	Q6X936, Q80W68, NP_060710.3

KIRREL Blocking Peptide(C-term) - Additional Information

Gene ID 55243

Other Names
Kin of IRRE-like protein 1, Kin of irregular chiasm-like protein 1, Nephrin-like protein 1, KIRREL, KIRREL1, NEPH1

Target/Specificity
The synthetic peptide sequence is selected from aa 520-534 of HUMAN KIRREL

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

KIRREL Blocking Peptide(C-term) - Protein Information

Name KIRREL1 (HGNC:15734)

Synonyms KIRREL, NEPH1

Function
Required for proper function of the glomerular filtration barrier. It is involved in the maintenance of a stable podocyte architecture with interdigitating foot processes connected by specialized cell-cell junctions, known as the slit diaphragm (PubMed:31472902). It is a signaling protein that needs the presence of TEC kinases to fully trans-activate the transcription factor AP-1 (By similarity).

Cellular Location
Cell membrane; Single-pass type I membrane protein. Note=Predominantly located at podocyte slit diaphragm

Tissue Location
Abundantly expressed in kidney. Specifically expressed in podocytes of kidney glomeruli

KIRREL Blocking Peptide(C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

KIRREL Blocking Peptide(C-term) - Images

KIRREL Blocking Peptide(C-term) - Background

NEPH1 is a member of the nephrin-like protein family, which includes NEPH2 (MIM 607761) and NEPH3 (MIM 607762). The cytoplasmic domains of these proteins interact with the C terminus of podocin (NPHS2; MIM 604766), and the genes are expressed in kidney podocytes, cells involved in ensuring size- and charge-selective ultrafiltration (Sellin et al., 2003 [PubMed 12424224]).

KIRREL Blocking Peptide(C-term) - References

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