NPHS1 peptide (DAG-P0959)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a member of the immunoglobulin family of cell adhesion molecules that functions in the glomerular filtration barrier in the kidney. The gene is primarily expressed in renal tissues, and the protein is a type-1 transmembrane protein found at the slit diaphragm of glomerular podocytes. The slit diaphragm is thought to function as an ultrafilter to exclude albumin and other plasma macromolecules in the formation of urine. Mutations in this gene result in Finnish-type congenital nephrosis 1, characterized by severe proteinuria and loss of the slit diaphragm and foot processes.[provided by RefSeq, Oct 2009]
Specificity	Specifically expressed in podocytes of kidney glomeruli.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the immunoglobulin superfamily.Contains 1 fibronectin type-III domain.Contains 8 Ig-like C2-type (immunoglobulin-like) domains.
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	NPHS1 nephrosis 1, congenital, Finnish type (nephrin) [Homo sapiens (human)]
Official Symbol	NPHS1
Synonyms	NPHS1; nephrosis 1, congenital, Finnish type (nephrin); CNF; NPHN; nephrin; nephrin; renal glomerulus-specific cell adhesion receptor;

Entrez Gene ID	4868
mRNA Refseq	NM_004646.3
Protein Refseq	NP_004637.1
UniProt ID	O60500
Chromosome Location	19q13.1
Pathway	Cell-Cell communication, organism-specific biosystem; Nephrin interactions, organism-specific biosystem; Nephrin/Neph1 signaling in the kidney podocyte, organism-specific biosystem;
Function	alpha-actinin binding; myosin binding; protein binding; protein domain specific binding; spectrin binding;