

Product Information

MemDX™ Membrane Protein Human NPHS1 (NPHS1 adhesion molecule, nephrin) Expressed in *E.coli* with 6xHis tag at the N-terminus for Antibody Discovery, Partial (23-257aa)

Cat. No.: **MPX4245K**

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

This product is a 29.1kDa Human NPHS1 membrane protein expressed in *E.coli*. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

NPHS1

Protein Length

Partial (23-257aa)

Protein Class

Cell adhesion

Molecular Weight

29.1kDa

TMD

1

Sequence

QLAIPASVPRGFWALPENLTVVEGASVELRCGVSTPGSAVQWAKDGLLLGPDPRIPGFPRYRLEGDPARGEFHLHIEACDLSDDAE

Product Description

Expression Systems

E.coli

Tag

6xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Purity

>90% as determined by SDS-PAGE

Buffer

Tris-based buffer, 50% glycerol

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

NPHS1

Full Name

NPHS1 adhesion molecule, nephrin

Introduction

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.

Alternative Names

NPHS1; CNF; NPHN; nephrin; nephrin; NPHS1, nephrin; nephrosis 1, congenital, Finnish type (nephrin); renal glomerulus-specific cell adhesion receptor; truncated NPHS1; NPHS1 adhesion molecule, nephrin

Gene ID

[4868](#)

UniProt ID

[O60500](#)