abcam

# Product datasheet

# Recombinant Human NPHS2 protein ab188448

1 Image

## Description

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|---|---|
| **Product name** | Recombinant Human NPHS2 protein |
| **Purity** | > 95 % Densitometry. |
| **Endotoxin level** | < 1.000 Eu/µg |
| **Expression system** | Escherichia coli |
| **Accession** | Q9NP85 |
| **Protein length** | Protein fragment |
| **Animal free** | No |
| **Nature** | Recombinant |
| **Species** | Human |
| **Sequence** | MKHHHHHHASVKVVQEYERVIIFRLGHLLPGRAKGPGL FFFLPCLDTYHK VDLRLQTLEIPFHEIVTKDMFIMEIDAICYYRMENASLLLS SLAHVSKAV QFLVQTTMKRLLAHRSLTEILLERKSIAQDAKVALDSVT CIWGIKVERIE IKDVRLPAGLQHSLAVEAEAQRQAKVRMIAAEAEKAA SESLRMAAEILSG TPAAVQLRYLHTLQSLSTEKPSTVVLPLPFDLLNCLSS PSNRTQGSLPFP SPSKPVEPLNPKKKDSPML |
| **Predicted molecular weight** | 30 kDa including tags |
| **Amino acids** | 125 to 383 |
| **Tags** | His tag N-Terminus |

## Specifications

Our Abpromise guarantee covers the use of **ab188448** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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| **Applications** | SDS-PAGE |
| | Mass Spectrometry |
| | Western blot |

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| | ELISA |
| **Mass spectrometry** | LC-MS/MS |
| **Form** | Lyophilised |

## Preparation and Storage

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| **Stability and Storage** | Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.<br>pH: 4.00<br>Constituents: 0.02% DTT, 0.25% Sodium acetate<br><br>Lyophilized in 30 mM acetate buffer. |
| **Reconstitution** | Add 0.1 M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 µg/mL. In higher concentrations the solubility of this antigen is limited. |

## General Info

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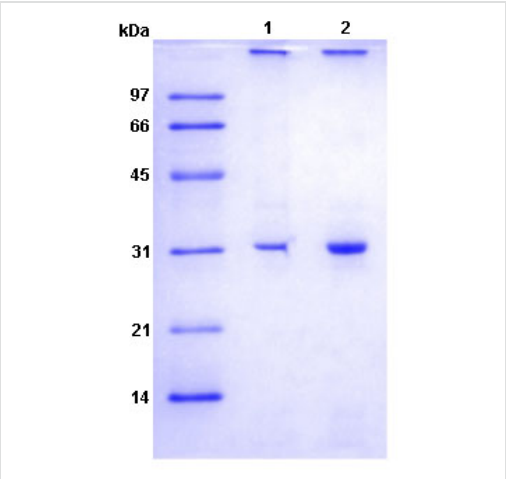
| **Function** | Plays a role in the regulation of glomerular permeability, acting probably as a linker between the plasma membrane and the cytoskeleton. |
| **Tissue specificity** | Almost exclusively expressed in the podocytes of fetal and mature kidney glomeruli. |
| **Involvement in disease** | Defects in NPHS2 are the cause of nephrotic syndrome type 2 (NPHS2) [MIM:600995]. It is a renal disorder characterized clinically by childhood onset of proteinuria, hypoalbuminemia, hyperlipidemia, and edema. Kidney biopsies show non-specific histologic changes such as focal segmental glomerulosclerosis and diffuse mesangial proliferation. The disorder is resistant to steroid treatment and progresses to end-stage renal failure in the first or second decades. Some patients show later onset of the disorder. |
| **Sequence similarities** | Belongs to the band 7/mec-2 family. |
| **Cellular localization** | Cell membrane. |

## Images




SDS-PAGE - Recombinant Human NPHS2 protein (ab188448)

14% SDS-PAGE analysis of ab188448.

Lane 1: Reduced and boiled sample, 2.5 µg

Lane 2: Non-reduced and non-boiled sample, 2.5 µg

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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