Product Datasheet

NPHS1 Antibody

Catalog No: #31249

Package Size: #31249-1 50ul #31249-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	NPHS1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	ELISA WB IHC
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous level of total NPHS1 protein.
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide peptide corresponding to a region derived from 1229-1241 amino acids of human nephrosis 1, congenital, Finnish type (nephrin)
Target Name	NPHS1
Other Names	nephrosis 1, congenital, Finnish type (nephrin), CNF, NPHN, nephrin
Accession No.	Swiss-Prot:O60500Gene ID:4868;
Uniprot	O60500
GeneID	4868;
Concentration	0.5mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Storage	Store at -20°C/1 year

Application Details

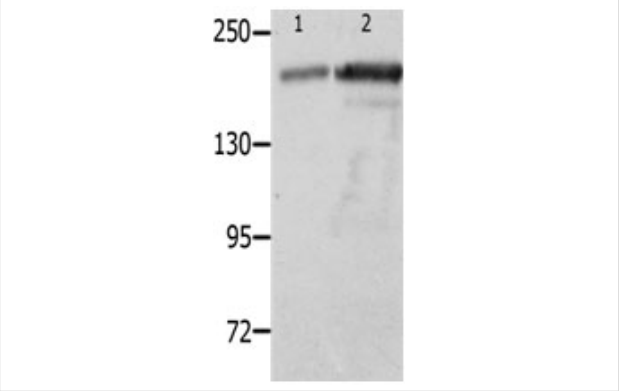
Predicted MW: 135kd

ELISA: 1:2000-1:5000

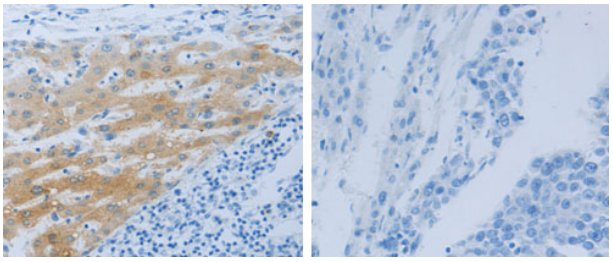
Western blotting: 1:500-1:2000

Immunohistochemistry: 1:25-1:100

Images



Gel: 8% SDS-PAGE
Lane1: Mouse spleen tissue lysate
Lane2: Mouse kidney tissue lysate
Lysates: 40ug per lane
Primary antibody: 1/800 dilution
Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/5000 dilution
Exposure time: 1 minute



The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using 31249 (NPHS1 Antibody) at dilution 1/50, on the right is treated with the synthetic peptide.

Background

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.In Western blots, nephrin antibodies generated against the two terminal extracellular Ig domains of recombinant human nephrin recognized a 180-kDa protein in lysates of human glomeruli and a 150-kDa protein in transfected COS-7 cell lysates.

Note: This product is for in vitro research use only