

# Nephrin Polyclonal Antibody

Catalog Number PA5-20330

Product Data Sheet

Details		Species Reactivity	
Size	100 µg	Tested species reactivity	Human, Mouse, Rat
Host / Isotype	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal	Immunocytochemistry (ICC)	10 ug/ml
Type	Antibody	Immunofluorescence (IF)	10 ug/mL
Immunogen	A 14 amino acid peptide from near the carboxy terminus of human Nephrin.	Immunohistochemistry (IHC)	1 ug/ml
Conjugate	Unconjugated	Western Blot (WB)	1 ug/ml
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	1mg/ml		
Purification	Antigen affinity chromatography		
Storage Buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C		

## Product Specific Information

Despite its predicted molecular weight, Nephrin often migrates at a lower molecular weight in SDS-PAGE. A suggested positive control is mouse kidney tissue lysate.

PA5-20330 can be used with blocking peptide PEP-0450.

## Background/Target Information

Nephrin is strongly expressed in renal glomeruli and is a member of the immunoglobulin family of cell adhesion molecules. Mutations in the Nephrin gene result in congenital nephrotic syndrome, an autosomal-recessive disorder characterized by massive proteinuria in utero and nephrosis at birth. Renal glomeruli allow normal kidneys to filter plasma so that it is very pure. Nephrin is expressed in the podocyte slit-diaphragm of the renal glomeruli in a manner that suggests that Nephrin molecules homodimerize in an anti-parallel fashion similar to cadherin interactions in adherens junctions. Thus, Nephrin may constitute the entire extracellular structure of the slit-diaphragm.

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