Datasheet for ABIN500330

anti-Nephrin antibody (C-Term)

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Overview

Quantity:	0.1 mg
Target:	Nephrin (NPHS1)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Nephrin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Nephrin antibody was raised against a 14 amino acid peptide from near the carboxy terminus of human Nephrin.
Isotype:	IgG
Specificity:	This antibody detects Nephrin.
Purification:	Peptide affinity chromatography

Target Details

Target:	Nephrin (NPHS1)
Alternative Name:	Nephrin (NPHS1 Products)

Target Details

Background:	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. Despite its predicted molecular weight, Nephrin often migrates at a lower than expected size in SDS-PAGE.Synonyms: NPHN, NPHS1
Gene ID:	4868
NCBI Accession:	NP_004637
UniProt:	O60500
Pathways:	Regulation of Actin Filament Polymerization, Skeletal Muscle Fiber Development

Application Details

Application Notes:	ELISA. Western blot: 0.5 - 1 µg/mL. Immunohistochemistry on paraffin sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

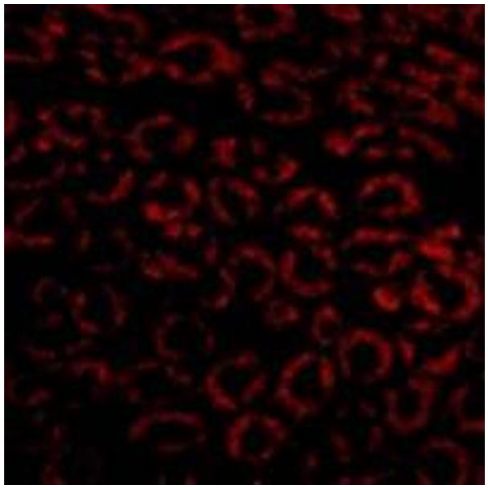
Handling

Concentration:	1.0 mg/mL
Buffer:	PBS containing 0.02 % Sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Publications

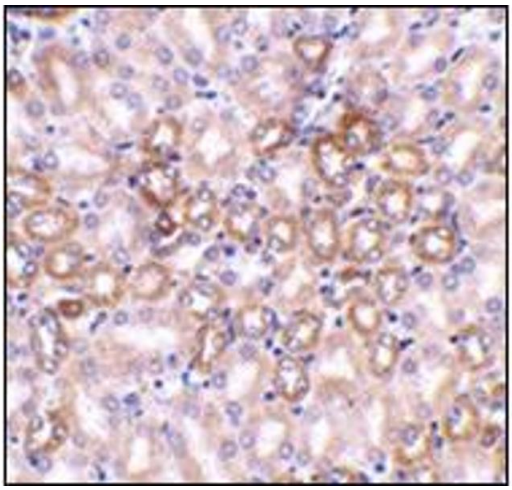
Product cited in:	Sampat, Dermksian, Oungoulian, Winchester, Bulinski, Ateshian, Hung: "Applied osmotic loading for promoting development of engineered cartilage." in: **Journal of biomechanics**, Vol. 46, Issue 15, pp. 2674-81, (2013) (PubMed).

Images



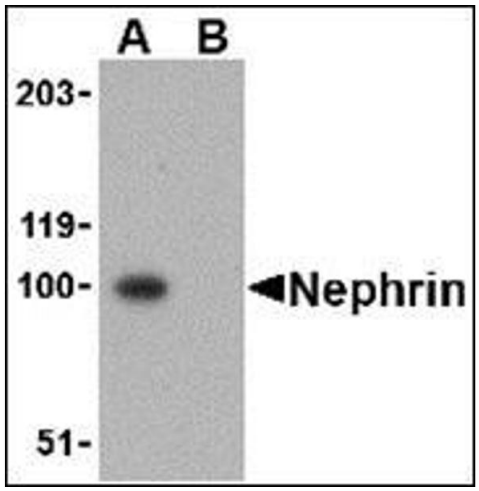
Immunofluorescence

Image 1. Immunofluorescence in mouse kidney cells using Nephrin Antibody at 10 µg/ml.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry in mouse kidney tissue using Nephrin Antibody at 1 µg/ml.



Western Blotting

Image 3. Western blot analysis in mouse kidney tissue lysate using Nephrin Antibody at 1 µg/ml in the (A) absence and (B) presence of blocking peptide.