abcam

Product datasheet

Anti-Nephrin (phospho Y1176 + Y1193) antibody [EPTPG1] ab80299

RabMAb

9 References 3 Images

Overview

Product name	Anti-Nephrin (phospho Y1176 + Y1193) antibody [EPTPG1]
Description	Rabbit monoclonal [EPTPG1] to Nephrin (phospho Y1176 + Y1193)
Host species	Rabbit
Specificity	This antibody detects Nephrin when either tyrosines 1176 or 1193 are phosphorylated, but does not detect non-phosphorylated Nephrin.
Tested applications	**Suitable for:** WB, Dot blot
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse
Immunogen	Synthetic peptide within Mouse Nephrin (phospho Y1176 + Y1193). The exact sequence is proprietary.
Positive control	Transfected HEK293T cells
General notes	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue

	culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPTPG1
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab80299 in the following tested applications.

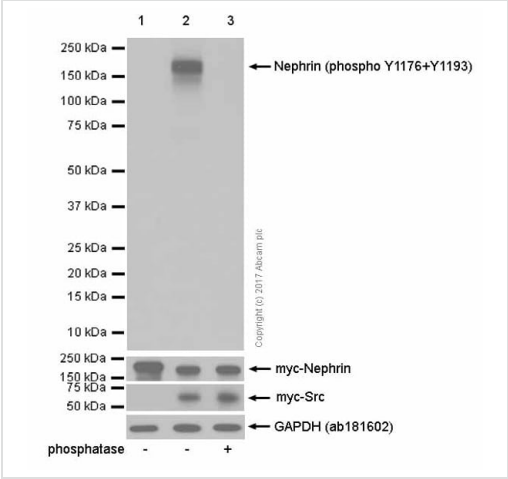
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/10000 - 1/50000. Detects a band of approximately 138, 180 kDa (predicted molecular weight: 138 kDa).
Dot blot		Use at an assay dependent concentration.

Target

Function	Seems to play a role in the development or function of the kidney glomerular filtration barrier. Regulates glomerular vascular permeability. May anchor the podocyte slit diaphragm to the actin cytoskeleton. Plays a role in skeletal muscle formation through regulation of myoblast fusion.
Tissue specificity	Specifically expressed in podocytes of kidney glomeruli.
Involvement in disease	Defects in NPHS1 are the cause of nephrotic syndrome type 1 (NPHS1) [MIM:256300]; also known as Finnish congenital nephrosis (CNF). A renal disease characterized clinically by proteinuria, hypoalbuminemia, hyperlipidemia, and edema. Kidney biopsies show non-specific histologic changes such as focal segmental glomerulosclerosis and diffuse mesangial proliferation. Some affected individuals have an inherited steroid-resistant form and progress to end-stage renal failure.
Sequence similarities	Belongs to the immunoglobulin superfamily. Contains 1 fibronectin type-III domain. Contains 8 Ig-like C2-type (immunoglobulin-like) domains.
Developmental stage	In 23-week-old embryo found in epithelial podocytes of the periphery of mature and developing glomeruli.
Post-translational modifications	Phosphorylated on tyrosine residues.
Cellular localization	Cell membrane. Predominantly located at podocyte slit diaphragm between podocyte foot processes. Also associated with podocyte apical plasma membrane.

Images



Western blot - Anti-Nephrin (phospho Y1176 + Y1193) antibody [EPTPG1] (ab80299)

All lanes : Anti-Nephrin (phospho Y1176 + Y1193) antibody [EPTPG1] (ab80299) at 1/1000 dilution

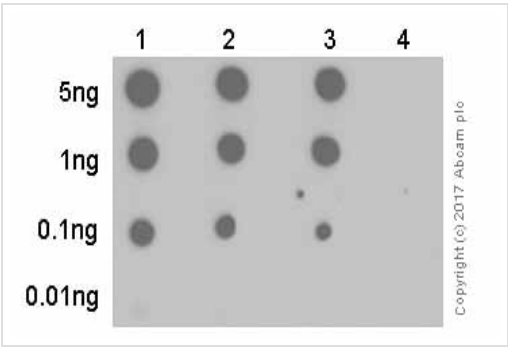
Lane 1 : HEK293T (human embryonic kidney epithelial cell) transfected with myc-tagged human Nephrin expression vector, whole cell lysate
Lane 2 : HEK293T (human embryonic kidney epithelial cell) transfected with myc-tagged human Nephrin and myc-tagged Src expression vector, whole cell lysate
Lane 3 : HEK293T (human embryonic kidney epithelial cell) transfected with myc-tagged human Nephrin and myc-tagged Src expression vector, whole cell lysate. Then the membrane was incubated with phosphatase.

Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

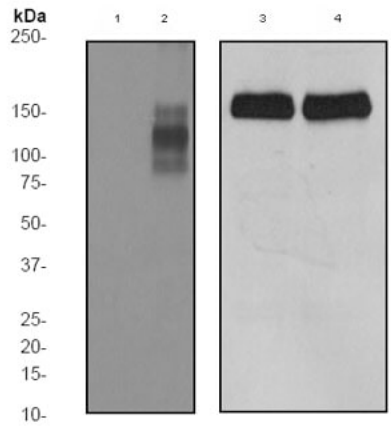
Predicted band size: 138 kDa
Observed band size: 170 kDa

Blocking and dilution buffer: 5% NFDM/TBST.



Dot Blot - Anti-Nephrin (phospho Y1176 + Y1193) antibody [EPTPG1] (ab80299)

Dot blot analysis of Nephrin (pY1176 + pY1193) phospho peptide (Lane 1), Nephrin (pY1176) phospho peptide (Lane 2), Nephrin (pY1193) phospho peptide (Lane 3) and Nephrin non-phospho peptide (Lane 4) labelling Nephrin (pY1176 + pY1193) with ab80299 at a dilution of 1/1000. A Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) was used as the secondary antibody at a dilution of 1/20,000. Blocking buffer: 5% NFDM/TBST. Dilution buffer: 5% NFDM /TBST.



Western blot - Anti-Nephrin (phospho Y1176 + Y1193) antibody [EPTPG1] (ab80299)

All lanes : Anti-Nephrin (phospho Y1176 + Y1193) antibody [EPTPG1] (ab80299) at 1/50000 dilution

Lane 1 : HEK293T (human embryonic kidney epithelial cell) transfected with wild type CD 16/7 Nephrin expression vector, whole cell lysate
Lane 2 : HEK293T (human embryonic kidney epithelial cell) transfected with wild type CD 16/7 Nephrin and active tyrosine kinase (v-Src) expression vector, whole cell lysate
Lane 3 : HEK293T (human embryonic kidney epithelial cell) transfected with Y1176F mutant CD 16/7 Nephrin and active tyrosine kinase (v-Src) expression vector, whole cell lysate
Lane 4 : HEK293T (human embryonic kidney epithelial cell) transfected with Y1193F mutant CD 16/7 Nephrin and active tyrosine kinase (v-Src) expression vector, whole cell lysate

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 138 kDa
Observed band size: 138,180 kDa

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