


## Product datasheet

# Anti-Nephrin (phospho Y1217) antibody [EPTPG3] - BSA and Azide free ab239894

Recombinant RabMAb

3 Images

### Overview

Product name	Anti-Nephrin (phospho Y1217) antibody [EPTPG3] - BSA and Azide free
Description	Rabbit monoclonal [EPTPG3] to Nephrin (phospho Y1217) - BSA and Azide free
Host species	Rabbit
Tested applications	<b>Suitable for:</b> Dot blot, WB
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: 293T transfected with myc-tagged human Nephrin and myc-tagged Src expression vectors.
General notes	<p>ab239894 is the carrier-free version of <a href="#">ab80298</a>.</p> <p>This product has switched from a hybridoma to recombinant production method on 20th November 2023.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p>

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPTPG3
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab239894 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

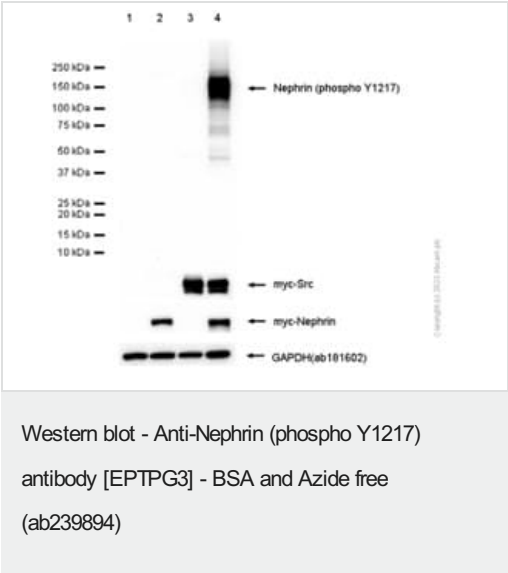
Application	Abreviews	Notes
<b>Dot blot</b>		Use at an assay dependent concentration.
<b>WB</b>		Use at an assay dependent concentration. Detects a band of approximately 138 kDa (predicted molecular weight: 138 kDa).

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Specifically expressed in podocytes of kidney glomeruli.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the immunoglobulin superfamily. Contains 1 fibronectin type-III domain. Contains 8 Ig-like C2-type (immunoglobulin-like) domains.
<b>Developmental stage</b>	In 23-week-old embryo found in epithelial podocytes of the periphery of mature and developing glomeruli.

<b>Post-translational modifications</b>	Phosphorylated on tyrosine residues.
<b>Cellular localization</b>	Cell membrane. Predominantly located at podocyte slit diaphragm between podocyte foot processes. Also associated with podocyte apical plasma membrane.

Images



**All lanes :** Anti-Nephtrin (phospho Y1217) antibody [EPTPG3] ([ab80298](#)) at 1/10000 dilution

**Lane 1 :** 293T (Human embryonic kidney epithelial cell) transfected with a myc-tagged empty vector whole cell lysate

**Lane 2 :** 293T (Human embryonic kidney epithelial cell) transfected with a myc-tagged human Nephtrin expression vector, whole cell lysate

**Lane 3 :** 293T (Human embryonic kidney epithelial cell) transfected with a myc-tagged Src expression vector, whole cell lysate

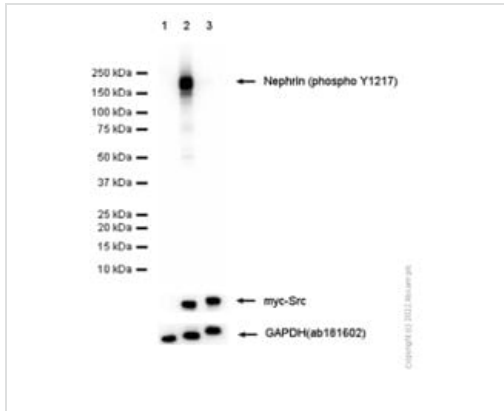
**Lane 4 :** 293T (Human embryonic kidney epithelial cell) transfected with myc-tagged human Nephtrin and myc-tagged Src expression vectors, whole cell lysate

Lysates/proteins at 20 µg per lane.

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

**Exposure time:** 3 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST.



Western blot - Anti-Nephrin (phospho Y1217) antibody [EPTPG3] - BSA and Azide free (ab239894)

**All lanes :** Anti-Nephrin (phospho Y1217) antibody [EPTPG3] (**ab80298**) at 1/10000 dilution

**Lane 1 :** 293T (Human embryonic kidney epithelial cell) transfected with a myc-tagged empty vector whole cell lysate

**Lane 2 :** 293T (Human embryonic kidney epithelial cell) transfected with with myc-tagged human Nephrin and myc-tagged Src expression vectors, whole cell lysate

**Lane 3 :** 293T (Human embryonic kidney epithelial cell) transfected with myc-tagged human Nephrin and myc-tagged Src expression vectors, whole cell lysate 15 µg. Then the membrane was incubated with Alkaline phosphatase

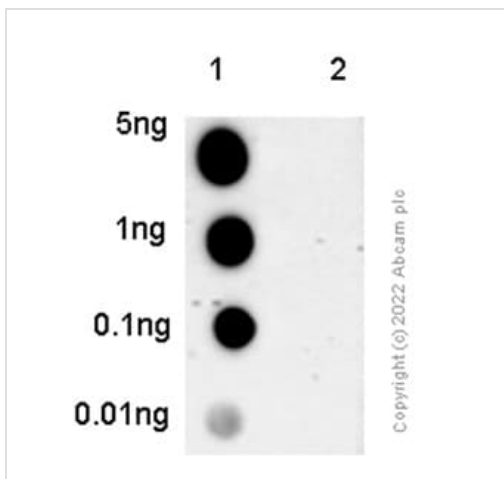
Lysates/proteins at 15 µg per lane.

**Predicted band size:** 138 kDa

**Observed band size:** 170 kDa

**Exposure time:** 3 seconds

Blocking and diluting buffer and concentration: 5% NFDm/TBST.



Dot Blot - Anti-Nephrin (phospho Y1217) antibody [EPTPG3] - BSA and Azide free (ab239894)

Dot blot analysis of Nephrin (pY1217) peptide and Nephrin non-phospho peptide labelling PKC alpha Nephrin (pY1217) with **ab80298** at a 1/1000 dilution. A peroxidase-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody at a 1/20,000 dilution. Blocking and dilution buffer: 5% NFDm/TBST.

Lane 1: Nephrin (pY1217) phospho peptide

Lane 2: Nephrin non-phospho peptide

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

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