abcam

ab320007

Anti-ENPP1/PC1 antibody [RM2066]

Recombinant | RabMAb | KO Validated | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Multiclonal
Immunogens	The exact immunogen used to generate this antibody is proprietary information.
Clone number	RM2066
Purification technique	Affinity purification Protein A
Concentration	0.526 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Transfected cell lysate - Mouse
Dilution info	1/1000
Notes	-

Species	Human

Dilution info	1/1000
Notes	-

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/1000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Mouse
Dilution info	1/500
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/500
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Not recommended

Species	Transfected cell lysate - Mouse
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/1000
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell lysate - Mouse
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/500
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell lysate - Mouse
Dilution info	-

Notes	-

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell lysate - Mouse
Dilution info	-
Notes	-

Target data

See full target information Enpp1

Function

Nucleotide pyrophosphatase that generates diphosphate (PPi) and functions in bone mineralization and soft tissue calcification by regulating pyrophosphate levels (PubMed:10352096, PubMed:11004006, PubMed:12082181, PubMed:22510396, PubMed:25260930, PubMed:9662402). PPi inhibits bone mineralization and soft tissue calcification by binding to nascent hydroxyapatite crystals, thereby preventing further growth of these crystals (PubMed:10352096, PubMed:11004006, PubMed:12082181, PubMed:19419305, PubMed:22510396, PubMed:25260930, PubMed:25479107, PubMed:26910915, PubMed:30111653, PubMed:35147247, PubMed:9662402). Preferentially hydrolyzes ATP, but can also hydrolyze other nucleoside 5' triphosphates such as GTP, CTP and UTP to their corresponding monophosphates with release of pyrophosphate, as well as diadenosine polyphosphates, and also 3',5'-cAMP to AMP (PubMed:11027689, PubMed:1647027, PubMed:23027977, PubMed:8223581). May also be involved in the regulation of the availability of nucleotide sugars in the endoplasmic reticulum and Golgi, and the regulation of purinergic signaling (PubMed:1647027). Inhibits ectopic joint calcification and maintains articular chondrocytes by repressing

hedgehog signaling; it is however unclear whether hedgehog inhibition is direct or indirect (PubMed:30111653). Appears to modulate insulin sensitivity (By similarity). Also involved in melanogenesis (By similarity). Also able to hydrolyze 2',3'-cGAMP (cyclic GMP-AMP), a second messenger that activates TMEM173/STING and triggers type-I interferon production (PubMed:25344812). 2',3'-cGAMP degradation takes place in the lumen or extracellular space, and not in the cytosol where it is produced; the role of 2',3'-cGAMP hydrolysis is therefore unclear (By similarity). Not able to hydrolyze the 2',3'-cGAMP linkage isomer 3',3'-cGAMP (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What are recombinant multiclonals?
Recombinant multiclonals are a mixture of recombinant antibodies co-expressed from a library of heavy and light chains. They offer several advantages including:

- The sensitivity of polyclonal antibodies by recognising multiple epitopes
- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

View our range of recombinant multiclonal antibodies.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	ENPP1 also known as PC-1 is a type II transmembrane glycoprotein with a molecular weight of approximately 130 kDa. It is expressed in various tissues including the liver kidney and bone. ENPP1 exhibits the enzymatic activity of nucleotide pyrophosphatase/phosphodiesterase which hydrolyzes ATP to AMP and diphosphate. This activity is important for the regulation of extracellular nucleotide levels and mineralization processes. Researchers often utilize the ENPP1 assay to study its function and activity.
Biological function summary	ENPP1 significantly influences bone mineralization and soft tissue calcification. It interacts with proteins like ectonucleoside triphosphate diphosphohydrolase-1 (ENTPD1) impacting cellular uptake of calcified materials. The protein is also involved in the regulatory networks responsible for controlling insulin signaling impacting metabolic processes. ENPP1 may form complexes with other proteins which can finely tune its biological activity and effects.
Pathways	ENPP1 plays a role in the insulin signaling pathway and the pyrophosphate pathway. Via its participation in insulin signaling ENPP1 regulates glucose metabolism and influences insulin sensitivity. It affects pathways related to mineral metabolism where it interacts with proteins like ENPP3. By regulating extracellular pyrophosphate levels ENPP1 contributes to inorganic phosphate homeostasis and influences skeletal development and maintenance.
Associated diseases and disorders	ENPP1 has associations with type 2 diabetes and generalized arterial calcification of infancy (GACI). Its role in type 2 diabetes relates to its ability to inhibit insulin receptor function therefore contributing to insulin resistance. ENPP1 also connects to proteins involved in vascular calcification such as matrix Gla protein (MGP) in the context of GACI. These associations highlight the importance of ENPP1 in metabolic and calcification disorders.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

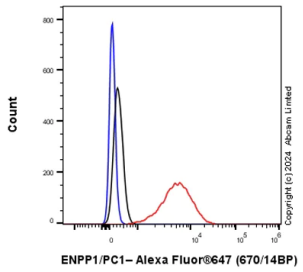
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

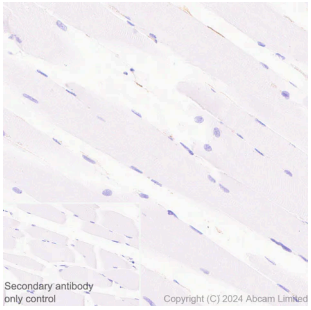
17 product images



Flow Cytometry (Intracellular) - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HepG2 (human hepatocellular carcinoma epithelial cell) cells labelling ENPP1/PC1 with ab320007 at 1/500 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat anti-Rabbit IgG (Alexa Fluor® 647, ab150083) at 1/5000 dilution was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

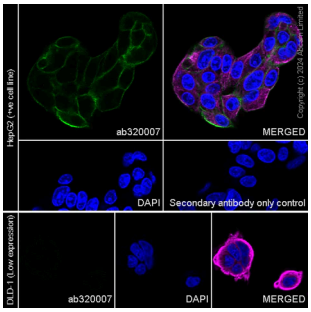
Immunohistochemical analysis of paraffin-embedded Human skeletal muscle tissue labeling ENPP1/PC1 with ab320007 at 1/1000 (0.506 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Low expression: weak staining on human skeletal muscle.
The section was incubated with ab320007 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument
Incubate slides with 3% Hydrogen Peroxide for 10 mins at room temperature after secondary antibody incubation to reduce the background

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



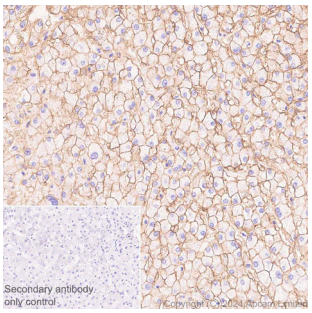
Immunocytochemistry/ Immunofluorescence - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Tween-20 permeabilized HepG2 (human hepatocellular carcinoma epithelial cell) cells labelling ENPP1/PC1 with ab320007 at 1/1000 (0.506 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2 ug/ml dilution (Green).

Confocal image showing mainly membranous staining in HepG2 cell line (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue).
Low expression: DLD-1.
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 2.5 ug/ml dilution (Magenta). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/ml dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

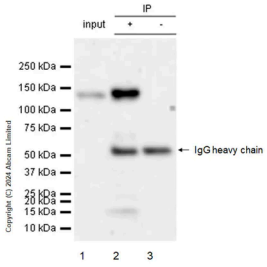
Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling ENPP1/PC1 with ab320007 at 1/1000 (0.506 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on human liver.
The section was incubated with ab320007 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument
Incubate slides with 3% Hydrogen Peroxide for 10 mins at room temperature after secondary antibody incubation to reduce the background

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunoprecipitation - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

ENPP1/PC1 was immunoprecipitated from 0.35 mg Huh7 (human hepatocellular carcinoma epithelial cell) whole cell lysate with ab320007 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab320007 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.

Lane 1: Huh7 (human hepatocellular carcinoma epithelial cell) whole cell lysate
Lane 2: ab320007 IP in Huh7 (human hepatocellular carcinoma epithelial cell) whole cell lysate
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab320007 in Huh7 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST

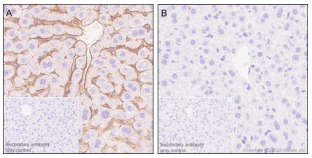
All lanes:
Immunoprecipitation - Anti-ENPP1/PC1 antibody [RM2066] (ab320007) at 1/30 dilution

All lanes:
Huh7 (human hepatocellular carcinoma epithelial cell) whole cell lysate

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Exposure time: 76s



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

ENPP1/PC1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-ENPP1/PC1 antibody

Immunohistochemical analysis of paraffin-embedded (A) Liver tissue from wild-type C57BL/6JGpt mice / (B) Liver tissue from ENPP1 knockout mice tissue labeling ENPP1/PC1 with ab320007 at 1/500 dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on (A) Liver tissue from wild-type C57BL/6JGpt mice and no staining on (B) Liver tissue from ENPP1 knockout mice.

The primary antibody was incubated for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

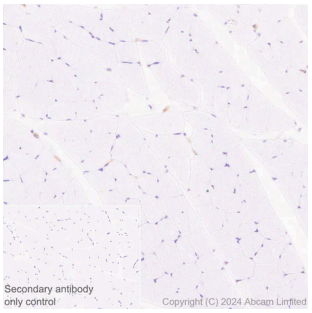
The tissue samples were kindly provided by GemPharmatech. C57BL/6JGpt wildtype mice and ENPP1-KO homozygous mice (Strain ID: T013898).

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

Immunohistochemical analysis of paraffin-embedded Rat skeletal muscle tissue labeling ENPP1/PC1 with ab320007 at 1/500 (0.506 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

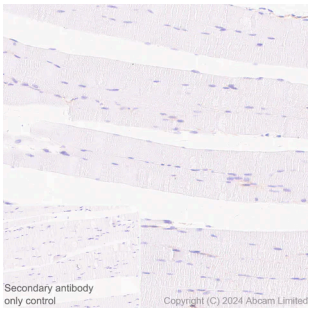
Low expression: weak staining on rat skeletal muscle.
The section was incubated with ab320007 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument
Incubate slides with 3% Hydrogen Peroxide for 10 mins at room temperature after secondary antibody incubation to reduce the background

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

Immunohistochemical analysis of paraffin-embedded Mouse skeletal muscle tissue labeling ENPP1/PC1 with ab320007 at 1/500 (0.506 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

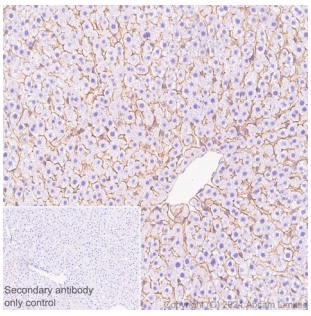
Low expression: weak staining on mouse skeletal muscle.
The section was incubated with ab320007 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument
Incubate slides with 3% Hydrogen Peroxide for 10 mins at room temperature after secondary antibody incubation to reduce the background

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

Immunohistochemical analysis of paraffin-embedded Rat liver tissue labeling ENPP1/PC1 with ab320007 at 1/500 (0.506 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

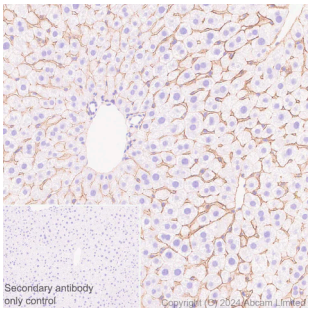
Positive staining on rat liver.
The section was incubated with ab320007 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument
Incubate slides with 3% Hydrogen Peroxide for 10 mins at room temperature after secondary antibody incubation to reduce the background

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

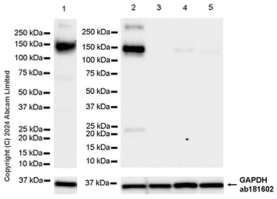
Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling ENPP1/PC1 with ab320007 at 1/500 (0.506 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on mouse liver.
The section was incubated with ab320007 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument
Incubate slides with 3% Hydrogen Peroxide for 10 mins at room temperature after secondary antibody incubation to reduce the background

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Western blot - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

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

Low expression: DLD-1, Caco-2 (PMID: 31978347), SK-BR-3 (PMID: 23861746).

The identity of the bands higher than 250 kDa and lower than 25 kDa are unknown.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

Exposure time: Lane 1: 10 seconds; Lanes 2-5: 37 seconds.

All lanes:
Western blot - Anti-ENPP1/PC1 antibody [RM2066] (ab320007) at 1/1000 dilution

Lane 1:
Huh7 (human hepatocellular carcinoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate at 20 µg

Lane 3:
DLD-1 (human colorectal adenocarcinoma epithelial cell) whole cell lysate at 20 µg

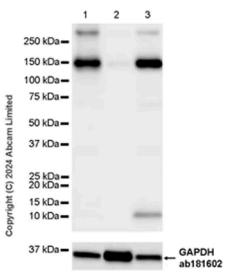
Lane 4:
SK-BR-3 (human breast adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 5:
Caco-2 (human colorectal adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Secondary

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

Observed band size: 130 kDa, 36 kDa



Western blot - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

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

Low expression: skeletal muscle.

The identity of the bands higher than 250 kDa and lower than 15 kDa are unknown.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-ENPP1/PC1 antibody [RM2066] (ab320007) at 1/1000 dilution

Lane 1:
Human liver tissue lysate at 20 µg

Lane 2:
Human skeletal muscle tissue lysate at 20 µg

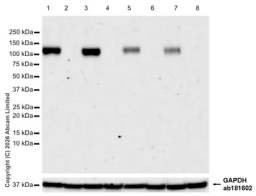
Lane 3:
Human pancreas tissue lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Observed band size: 130 kDa, 36 kDa

Exposure time: 15s



Western blot - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

ENPP1/PC1 Western blot staining using rabbit Anti-ENPP1/PC1 antibody

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

The tissue samples were kindly provided by GemPharmatech. C57BL/6JGpt wildtype mice and ENPP1-KO homozygous mice (Strain ID: T013898).

This blot was developed using a high-sensitivity ECL substrate, allowing for the detection of proteins in the mid-femtogram range.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) was used at 1/200000 (36KDa).

All lanes:
Western blot - Anti-ENPP1/PC1 antibody [RM2066] (ab320007) at 1/1000 dilution

Lane 1:
Wild-type mouse liver tissue lysate (female) at 20 µg

Lane 2:
ENPP1 knockout mouse liver tissue lysate (female) at 20 µg

Lane 3:
Wild-type mouse liver tissue lysate (male) at 20 µg

Lane 4:
ENPP1 knockout mouse liver tissue lysate (male) at 20 µg

Lane 5:
Wild-type mouse kidney tissue lysate (female) at 20 µg

Lane 6:
ENPP1 knockout mouse kidney tissue lysate (female) at 20 µg

Lane 7:
Wild-type mouse kidney tissue lysate (male) at 20 µg

Lane 8:
ENPP1 knockout mouse kidney tissue lysate (male) at 20 µg

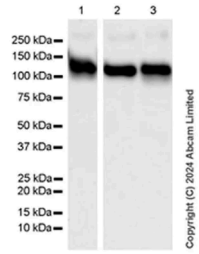
Secondary

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

Developed using the ECL technique.

Observed band size: 103 kDa, 36 kDa

Exposure time: 180s



Western blot - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

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

All lanes:
Western blot - Anti-ENPP1/PC1 antibody [RM2066] (ab320007) at 1/1000 dilution

Lane 1:
Mouse kidney tissue lysate at 20 µg

Lane 2:
Mouse dorsal ganglion tissue lysate at 20 µg

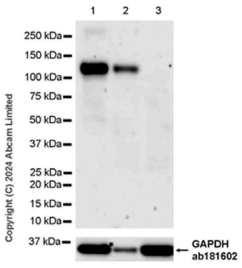
Lane 3:
Rat dorsal ganglion tissue lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 130 kDa

Exposure time: 81s



Western blot - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

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

Low expression: F9.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-ENPP1/PC1 antibody [RM2066] (ab320007) at 1/1000 dilution

Lane 1:
NIH/3T3 (mouse embryonic fibroblast) whole cell lysate at 20 µg

Lane 2:
4T1 (mouse mammary gland carcinoma epithelial cell) whole cell lysate at 20 µg

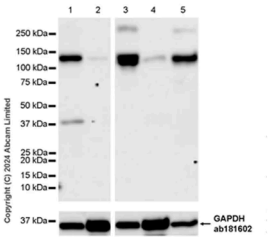
Lane 3:
F9 (mouse embryonal carcinoma epithelial cell) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 130 kDa, 36 kDa

Exposure time: 180s



Western blot - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

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

Low expression: skeletal muscle.

The identity of the bands higher than 250 kDa and lower than 50 kDa are unknown.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-ENPP1/PC1 antibody [RM2066] (ab320007) at 1/1000 dilution

Lane 1:
Mouse liver tissue lysate at 20 µg

Lane 2:
Mouse skeletal muscle tissue lysate at 20 µg

Lane 3:
Rat liver tissue lysate at 20 µg

Lane 4:
Rat skeletal muscle tissue lysate at 20 µg

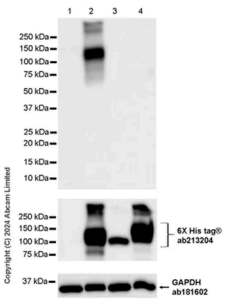
Lane 5:
Rat kidney tissue lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 130 kDa, 36 kDa

Exposure time: 70s



Western blot - Anti-ENPP1/PC1 antibody [RM2066] (ab320007)

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

This antibody does not cross-react with mouse ENPP2 and ENPP3.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

In Western blot, Anti-6X His tag® antibody [EPR20547] - ChIP Grade (ab213204) staining at 1/5000 dilution.

All lanes:
Western blot - Anti-ENPP1/PC1 antibody [RM2066] (ab320007) at 1/1000 dilution

Lane 1:

293T (human embryonic kidney epithelial cell) cells transfected with an empty vector containing a His-tag, whole cell lysate at 10 µg

Lane 2:
293T cells transfected with a mouse ENPP1 expression vector containing a His-tag, whole cell lysate at 10 µg

Lane 3:
293T cells transfected with a mouse ENPP2 expression vector containing a His-tag, whole cell lysate at 10 µg

Lane 4:
293T cells transfected with a mouse ENPP3 expression vector containing a His-tag, whole cell lysate at 10 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 130 kDa, 36 kDa

Exposure time: 8s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.