abcam

ab178430

Anti-PAH antibody [EPR12380]

Anti-PAH antibody [EPR12380] (ab178430) is a rabbit monoclonal antibody detecting PAH in **Western Blot, Flow Cytometry (Intra), IHC-P, ICC/IF**. Suitable for **Human**.

- Biophysical QC for unrivalled batch-batch consistency

Recombinant | RabMAb | 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	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR12380
Purification technique	Affinity purification Protein A
Concentration	0.108 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/50 - 1/100

Notes	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

Not recommended

Species	Rat, Mouse
Dilution info	-
Notes	-

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

Species	Mouse
Dilution info	1/500
Notes	-

Species	Rat
Dilution info	1/500
Notes	-

ICC/IF

Tested

Species	Human

Dilution info	1/50 - 1/100
Notes	-

Expected

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

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

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

Target data

See full target information Phenylalanine-4-hydroxylase

Function	Catalyzes the hydroxylation of L-phenylalanine to L-tyrosine.

Storage

Shipped at conditions	Conditional Ambient
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 is this antibody validated in?
Anti-PAH antibody [EPR12380] (ab178430) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in Human samples.

What is the molecular weight of PAH?
Anti-PAH [EPR12380] (ab178430) specifically detects a band for PAH (UniProt: P00439) at a molecular weight of 51kDa.

Other related products
We have a range of other formats of antibody clone [EPR12380] also available for your convenience: ab178430, Carrier free - ab202431, Alexa Fluor® 647 - ab207388, Alexa Fluor® 488 - ab208418, PE - ab303092, APC - ab303093, HRP - ab303094, Alkaline Phosphatase - ab308739, Alexa Fluor® 594 - ab310453, Alexa Fluor® 555 - ab311982, Alexa Fluor® 568 - ab312457, Alexa Fluor® 750 - ab321214

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.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

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

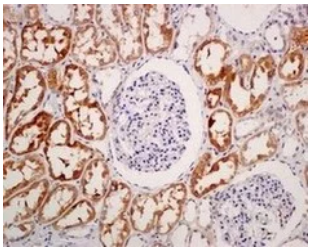
We do not recommend this combination. It is not covered by our product promise.

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.

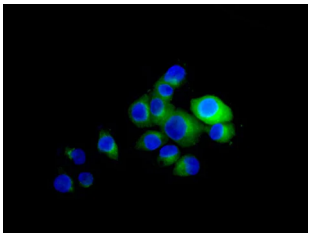
8 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAH antibody [EPR12380] (ab178430)

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

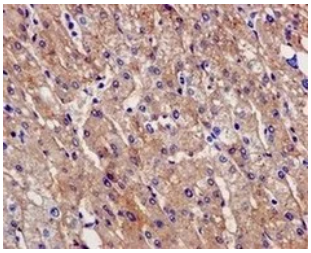
Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling PAH with ab178430 at 1/50 dilution.
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-PAH antibody [EPR12380] (ab178430)

PAH Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-PAH antibody

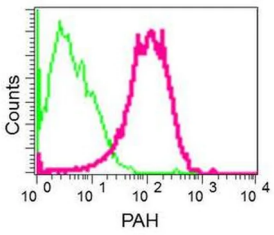
Immunofluorescent analysis of HepG2 cells labeling PAH with ab178430 at 1/50 dilution (green). DAPI nuclear staining (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAH antibody [EPR12380] (ab178430)

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

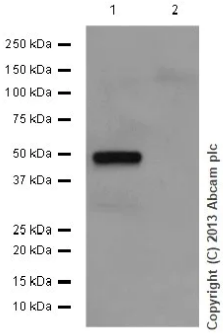
Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling PAH with ab178430 at 1/50 dilution.
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-PAH antibody [EPR12380] (ab178430)

PAH Flow Cytometry (Intracellular) staining using rabbit Anti-PAH antibody

Intracellular flow cytometric analysis of permeabilized HepG2 cells labeling PAH with ab178430 at 1/10 dilution (red) or a rabbit IgG (negative) (green).



Western blot - Anti-PAH antibody [EPR12380] (ab178430)

PAH Western blot staining using rabbit Anti-PAH antibody

Blocking buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-PAH antibody [EPR12380] (ab178430) at 1/10000 dilution

Lane 1:
HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate at 20 µg

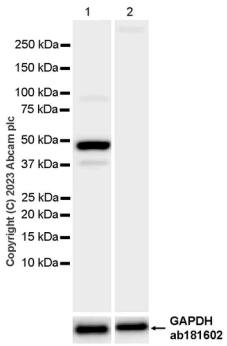
Lane 2:
U-87MG (Human glioblastoma-astrocytoma epithelial cell) whole cell lysate at 20 µg

Secondary

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

Observed band size: 51 kDa

Exposure time: 180s



Western blot - Anti-PAH antibody [EPR12380] (ab178430)

Blocking and dilution buffer: 5% NFDM/TBST

Negative control: mouse spleen.

In Western blot, anti-GAPDH antibody (ab181602) loading control staining at 1/200000 dilution.

All lanes:
Western blot - Anti-PAH antibody [EPR12380] (ab178430)

Lane 1:

Mouse liver tissue lysate at 20 µg

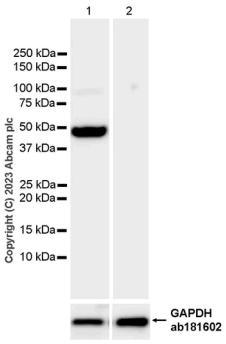
Lane 2:
Mouse spleen tissue lysate at 20 µg

Secondary

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

Predicted band size: 51 kDa

Observed band size: 51 kDa



Western blot - Anti-PAH antibody [EPR12380] (ab178430)

Blocking and dilution buffer: 5% NFDM/TBST.

Negative control: rat spleen.

In Western blot, anti-GAPDH antibody (ab181602) loading control staining at 1/200000 dilution.

All lanes:
Western blot - Anti-PAH antibody [EPR12380] (ab178430) at 1/500 dilution

Lane 1:
Rat liver tissue lysate at 20 µg

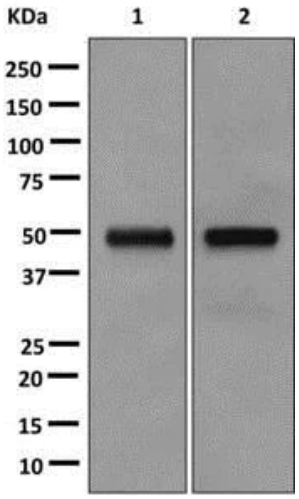
Lane 2:
Rat spleen tissue lysate at 20 µg

Secondary

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

Predicted band size: 51 kDa

Observed band size: 51 kDa



Western blot - Anti-PAH antibody [EPR12380] (ab178430)

All lanes:
Western blot - Anti-PAH antibody [EPR12380] (ab178430) at 1/1000 dilution

Lane 1:
Human fetal liver lysate at 10 µg

Lane 2:
HepG2 cell line lysate at 10 µg

Secondary

All lanes:
Goat anti-rabbit HRP conjugated antibody

Developed using the ECL technique.

Predicted band size: 51 kDa

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