Rabbit Anti-PAH

(100 μg/vial, Lyophilized)

Catalog Number: BPAB2812

FOR RESEARCH USE ONLY

Overview

Product Name	Anti-PAH Antibody
Reactive Species	Human, Mouse, Rat
Description	Rabbit IgG polyclonal antibody for Phenylalanine-4-hydroxylase(PAH) detection. Tested with WB, IHC-P, IHC-F, ICC/IF, FCM in Human;Mouse;Rat.
Application	Flow Cytometry, IF, IHC-P, IHC-F, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P00439

Technical Details

Immunogen	E. coli-derived human PAH recombinant protein. Human PAH shares 89.1% and 88.4% amino acid (aa) sequence identity with mouse and rat PAH, respectively.
	for IHC(P), IHC(F) and ICC.
Cross Reactivity	No cross reactivity with other proteins.
Form	Lyophilized
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5μg/ml, Human, Mouse, Rat, Immunohistochemistry(Paraffin-embedded Section), 0.5-1μg/ml, Human, Mouse, Rat, By Heat Immunohistochemistry(Frozen Section), 0.5-1μg/ml, Human Immunocytochemistry/Immunofluorescence, 2μg/ml, Human Flow Cytometry|1-3μg/1x10^6 cells, Human

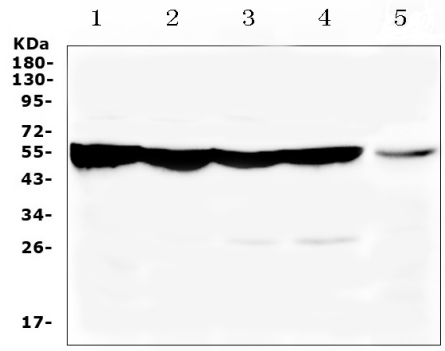

Figure 1. Western blot analysis of PAH using anti-PAH antibody.
Electrophoresis was performed on a 5-20% SDS-PAGE gel. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: rat liver tissue lysate,
Lane 2: rat kidney tissue lysate,
Lane 3: mouse liver tissue lysate,
Lane 4: mouse kidney tissue lysate,
Lane 5: human HepG2 whole cell lysate.
Western blot analysis with polyclonal antibody at 0.5 μg/mL overnight at 4°C.
A specific band was detected for PAH at approximately 52KD.

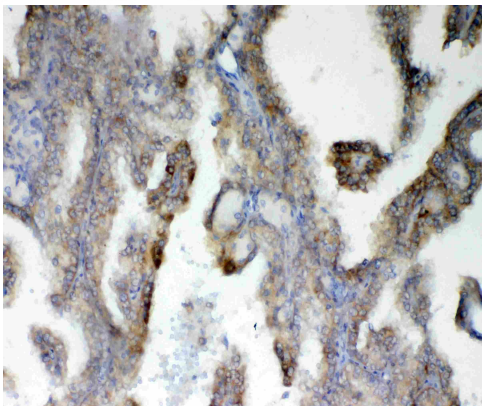

Figure 2. IHC analysis of PAH using anti-PAH antibody.
PAH was detected in paraffin-embedded section of human renal cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti-PAH Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-HRP with DAB as the chromogen.

2727 Second Ave. Suite 4113 – Detroit, MI 48201 – tel. 313.961.1606 – fax. 313.963.7130 – info@detroitrandd.com – www.detroitRandD.com

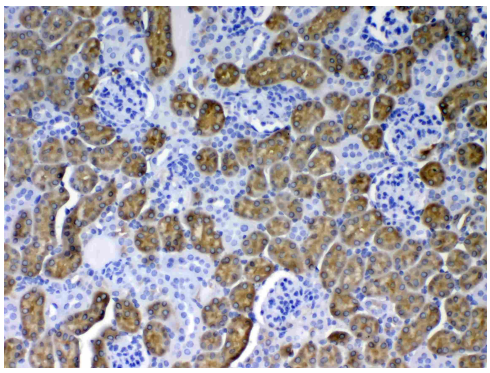

Figure 3. IHC analysis of PAH using anti-PAH antibody.
PAH was detected in paraffin-embedded section of mouse kidney tissue . Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-PAH Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-HRP with DAB as the chromogen.

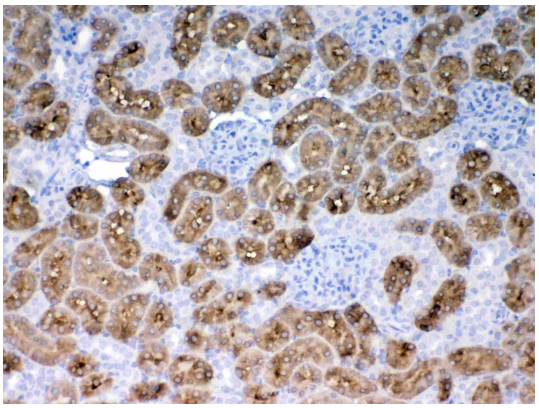

Figure 4. IHC analysis of PAH using anti-PAH antibody.
PAH was detected in paraffin-embedded section of rat kidney tissue . Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-PAH Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-HRP with DAB as the chromogen.

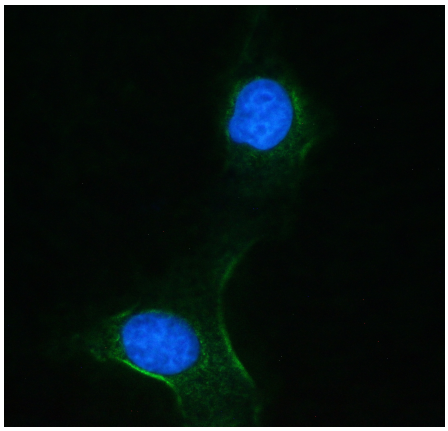

Figure 5. IF analysis of PAH using anti- PAH antibody.
PAH was detected in immunocytochemical section of HepG2 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/mL rabbit anti-PAH Antibody overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

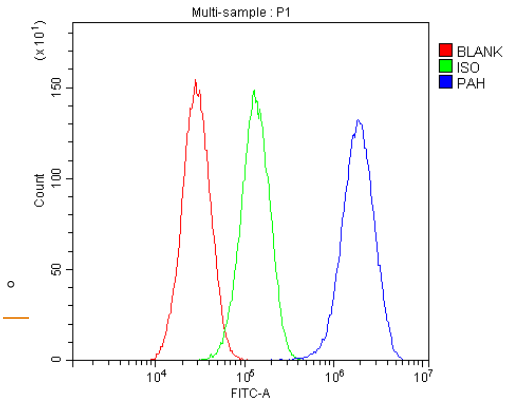

Figure 6. Flow Cytometry analysis of HepG2 cells using anti- PAH antibody.
Overlay histogram showing HepG2 cells stained with A00761-1 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PAH Antibody (1µg/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (
5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.