

Rabbit PAH/Phenylalanine Hydroxylase Polyclonal Antibody | anti-PAH antibody

Anti-PAH/Phenylalanine Hydroxylase Picoband Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124593	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

PAH/Phenylalanine Hydroxylase; Polyclonal Antibody; Anti-PAH/Phenylalanine Hydroxylase Picoband Antibody; Phenylalanine-4-hydroxylase; PAH; 1.14.16.1; Phe-4-monooxygenase; anti-PAH antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	452
Applicable Applications for anti-PAH antibody	WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	E Coli-derived human PAH recombinant protein (Position: R71-H208). Human PAH shares 89.1% and 88.4% amino acid (aa) sequence identity with mouse and rat PAH, respectively.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)

Figure 1. Western blot analysis of PAH using anti-PAH antibody (AAA124593). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. 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. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PAH antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PAH at approximately 52KD. The expected band size for PAH is at 52KD.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of PAH using anti-PAH antibody (AAA124593). 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 1ug/ml rabbit anti-PAH Antibody (AAA124593) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of PAH using anti-PAH antibody (AAA124593). 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 1ug/ml rabbit anti-PAH Antibody (AAA124593) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of PAH using anti-PAH antibody (AAA124593). 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 1ug/ml rabbit anti-PAH Antibody (AAA124593) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-PAH antibody	Phenylalanine hydroxylase (PAH) is an enzyme that catalyzes the hydroxylation of the aromatic side-chain of phenylalanine to generate tyrosine. It is one of three members of the bipterin-dependent aromatic amino acid hydroxylases, a class of monooxygenase that uses tetrahydrobiopterin (BH4, a pteridine cofactor) and a non-heme iron for catalysis. Deficiency of this enzyme activity results in the autosomal recessive disorder phenylketonuria.
Product Categories/Family for anti-PAH antibody	Signal Transduction ; Metabolism ; Amino Acids ; Metabolism ; Pathways and Processes ; Metabolic Signaling Pathways ; amino acid metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557819
NCBI GeneID	5053
NCBI Accession #	NP_000268.1
NCBI GenBank Nucleotide #	NM_000277.2
UniProt Accession #	P00439; Q16717; Q8TC14
Molecular Weight	51862 MW
NCBI Official Full Name	phenylalanine-4-hydroxylase
NCBI Official Synonym Full Names	phenylalanine hydroxylase
NCBI Official Symbol	PAH
NCBI Official Synonym Symbols	PH; PKU; PKU1
NCBI Protein Information	phenylalanine-4-hydroxylase
UniProt Protein Name	Phenylalanine-4-hydroxylase
UniProt Gene Name	PAH
UniProt Synonym Gene Names	PAH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/pah-phenylalanine-hydroxylase-antibody-western-blot-immunohistochemistry-elisa/124593>