

For Research Use Only

# PAH Polyclonal antibody

Catalog Number: 16347-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 16347-1-AP	<b>GenBank Accession Number:</b> BC026251	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 350 µg/ml	<b>GeneID (NCBI):</b> 5053	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P00439	
<b>Isotype:</b> IgG	<b>Full Name:</b> phenylalanine hydroxylase	
<b>Immunogen Catalog Number:</b> AG9541	<b>Calculated MW:</b> 452 aa, 52 kDa	
	<b>Observed MW:</b> 52 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : HepG2 cells, mouse kidney tissue IHC : human liver cancer tissue,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

PAH, also known as PH, belongs to the aromatic amino acid hydroxylase (AAAH) enzyme family. PAH catalyzes the conversion of L-phenylalanine (L-Phe) to L-tyrosine (L-Tyr) by para-hydroxylation of the aromatic side chain. PAH is primarily present in the liver, where removal of excess L-Phe prevents the neurotoxic effect of hyperphenylalaninemia (HPA). The calculated molecular weight of PAH is 52 kDa (PMID: 23457044).

## Notable Publications

Author	Pubmed ID	Journal	Application
Angel Loza-Valdes	34145024	Life Sci Alliance	WB
Changzheng Li	35080145	Adv Sci (Weinh)	WB
Yunjie Wang	33915296	Pharmacol Res	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

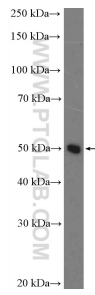
T: 4006900926

E: Proteintech-CN@ptglab.com

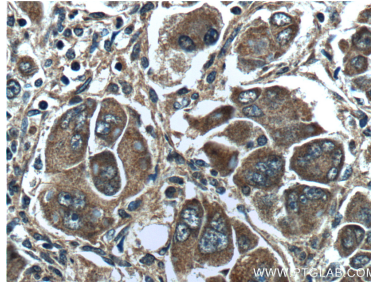
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## Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 16347-1-AP (PAH Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 16347-1-AP (PAH Antibody) at dilution of 1:200 (under 40x lens).