

For Research Use Only

# PAH Polyclonal antibody

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



## Basic Information

|  |  |  |
|--|--|--|
| <b>Catalog Number:</b><br>16347-1-AP   | <b>GenBank Accession Number:</b><br>BC026251   | <b>Purification Method:</b><br>Antigen affinity purification       |
| <b>Size:</b><br>150ul , Concentration: 350 µg/ml by Nanodrop and 240 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>5053                  | <b>Recommended Dilutions:</b><br>WB 1:500-1:1000<br>IHC 1:50-1:500 |
| <b>Source:</b><br>Rabbit   | <b>Full Name:</b><br>phenylalanine hydroxylase |  |
| <b>Isotype:</b><br>IgG   | <b>Calculated MW:</b><br>452 aa, 52 kDa        |  |
| <b>Immunogen Catalog Number:</b><br>AG9541   | <b>Observed MW:</b><br>52 kDa                  |  |

## Applications

|   |  |
|---|--|
| <b>Tested Applications:</b><br>IHC, WB, ELISA | <b>Positive Controls:</b><br>WB : HepG2 cells, mouse kidney tissue |
| <b>Cited Applications:</b><br>WB              | <b>IHC :</b> human liver cancer tissue,                            |
| <b>Species Specificity:</b><br>human, mouse   |  |
| <b>Cited Species:</b><br>human, mouse         |  |

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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

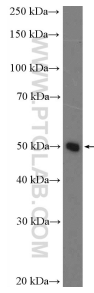
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

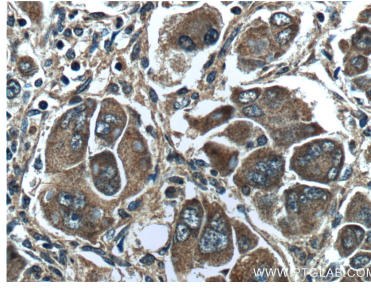
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## Selected Validation Data



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).