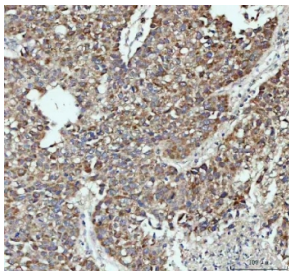


## PAH Antibody / Phenylalanine hydroxylase (R32863)

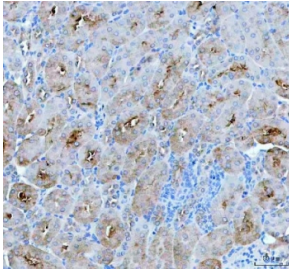
Catalog No.	Formulation	Size
R32863	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

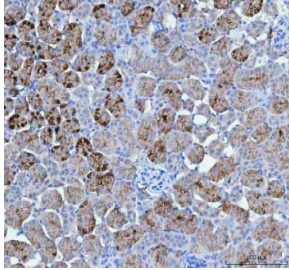
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	P00439
<b>Localization</b>	Cytoplasmic
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells
<b>Limitations</b>	This PAH antibody is available for research use only.



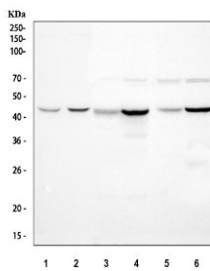
IHC staining of FFPE human liver cancer tissue with PAH antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



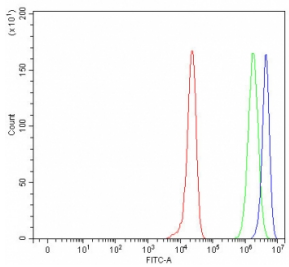
IHC staining of FFPE mouse kidney tissue with PAH antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat kidney tissue with PAH antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HepG2, 2) human Caco-2, 3) rat kidney, 4) rat liver, 5) mouse kidney and 6) mouse liver tissue lysate with PAH antibody. Predicted molecular weight ~52 kDa.



Flow cytometry testing of human HepG2 cells with PAH antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PAH antibody.

## Description

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 biopterin-dependent aromatic amino acid hydroxylases, a class of monooxygenase that uses tetrahydrobiopterin (BH<sub>4</sub>, a pteridine cofactor) and a non-heme iron for catalysis. Deficiency of this enzyme activity results in the autosomal recessive disorder phenylketonuria.

## Application Notes

Optimal dilution of the PAH antibody should be determined by the researcher.

## Immunogen

A recombinant human protein corresponding to amino acids R71-H208 was used as the immunogen for the PAH antibody.

## Storage

After reconstitution, the PAH antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

