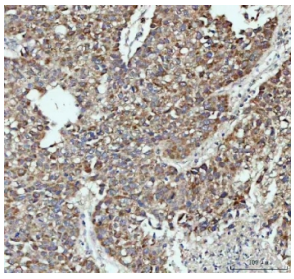
PAH Antibody / Phenylalanine hydroxylase (R32863)

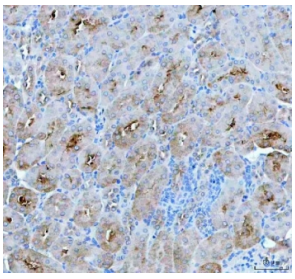
Catalog No.	Formulation	Size
R32863	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

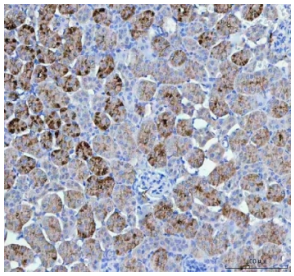
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P00439
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml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



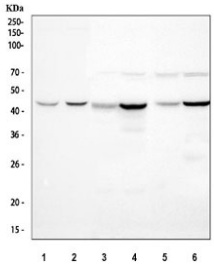
IHC staining of FFPE human liver cancer tissue with PAH antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



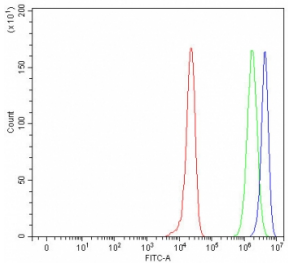
IHC staining of FFPE mouse kidney tissue with PAH antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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 (BH4, 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 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.