

RACO0428

Product Information

Size:

50ul

Reactivity:

Human

Source:

Homo sapiens (Human)

Isotype:

Rabbit IgG

Applications:

ELISA, WB, IHC

Recommended dilutions:

WB:1:500-1:5000, IHC:1:50-1:200

Protein Background:

Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. Most active in catalyzing 2-hydroxylation. Caffeine is metabolized primarily by cytochrome CYP1A2 in the liver through an initial N3-demethylation. Also acts in the metabolism of aflatoxin B1 and acetaminophen. Participates in the bioactivation of carcinogenic aromatic and heterocyclic amines. Catalyzes the N-hydroxylation of heterocyclic amines and the O-deethylation of phenacetin.

Gene ID:

CYP1A2

Uniprot

P05177

Synonyms:

Cytochrome P450 1A2 (EC 1.14.14.1) (CYP1A2) (Cholesterol 25-hydroxylase) (Cytochrome P(3)450) (Cytochrome P450 4) (Cytochrome P450-P3), CYP1A2

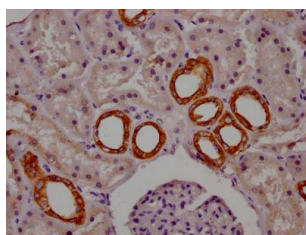
Immunogen:

A synthesized peptide derived from human Cytochrome P450 1A2.

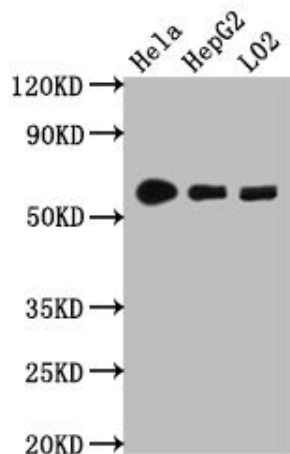
Storage:

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Product Images



IHC image of RACO0428 diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Western Blot

Positive WB detected in(HeLa whole cell lysate) HepG2 whole cell lysate) L02 whole cell lysate) All lanes: CYP1A2 antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1:50000 dilution

Predicted band size: 59 kDa

Observed band size: 59 kDa