

CYP1A1/2 Polyclonal Antibody

Catalog No: YT1191

Reactivity: Human; Mouse; Rat; Monkey

Applications: WB;IHC;IF;ELISA

Target: CYP1A1/2

Fields: >>Steroid hormone biosynthesis;>>Tryptophan metabolism;>>Retinol

metabolism;>>Metabolism of xenobiotics by cytochrome P450;>>Metabolic pathways;>>Ovarian steroidogenesis;>>Chemical carcinogenesis - DNA adducts;>>Chemical carcinogenesis - receptor activation;>>Chemical carcinogenesis - reactive oxygen species;>>Lipid and atherosclerosis

Gene Name: CYP1A1/CYP1A2

Protein Name: Cytochrome P450 1A1/2

P04798/P05177

Human Gene Id: 1543/1544

Human Swiss Prot

No:

Mouse Gene ld: 13076/13077

Rat Gene Id: 24296/24297

Rat Swiss Prot No: P00185/P04799

Immunogen: The antiserum was produced against synthesized peptide derived from human

Cytochrome P450 1A1/2. AA range:71-120

Specificity: CYP1A1/2 Polyclonal Antibody detects endogenous levels of CYP1A1/2 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not

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yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

-15°C to -25°C/1 year(Do not lower than -25°C) **Storage Stability:**

Observed Band: 58kD

Steroid hormone biosynthesis; Tryptophan metabolism; Retinol **Cell Pathway:**

metabolism; Metabolism of xenobiotics by cytochrome P450;

This gene, CYP1A1, encodes a member of the cytochrome P450 superfamily of **Background:**

> enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and its expression is induced by some polycyclic aromatic hydrocarbons (PAHs), some

of which are found in cigarette smoke. The enzyme's endogenous substrate is unknown; however, it is able to metabolize some PAHs to

carcinogenic intermediates. The gene has been associated with lung cancer risk. A related family member, CYP1A2, is located approximately 25 kb away from CYP1A1 on chromosome 15. Alternative splicing results in multiple transcript

variants encoding distinct isoforms. [provided by RefSeq, Jan 2016],

Function: catalytic activity:RH + reduced flavoprotein + O(2) = ROH + oxidized

flavoprotein + H(2)O.,cofactor:Heme group.,function: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.,induction:By 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD).,online

information:CYP1A1 alleles,online information:CYP1A1 entry,online information: The Singapore human mutation and polymorphism database, similarity: Belongs to the cytochrome P450 family., tissue

specificity:Lung, lymphocytes and placenta.,

Subcellular Endoplasmic reticulum membrane; Peripheral membrane protein. Location:

Mitochondrion inner membrane; Peripheral membrane protein. Microsome

membrane; Peripheral membrane protein. Cytoplasm.

Expression: Lung, lymphocytes and placenta.

Tag: hot

4772 Sort:

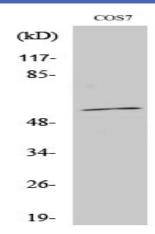


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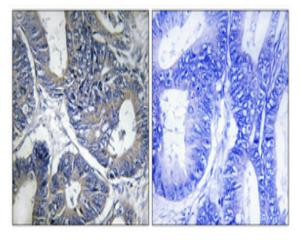
Host: Rabbit

Modifications: Unmodified

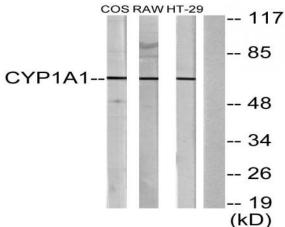
Products Images



Western Blot analysis of various cells using CYP1A1/2 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human colon cancer. Antibody was diluted at 1:100(4° overnight). Highpressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was preabsorbed by immunogen peptide.



Western blot analysis of lysates from COS7, RAW264.7, and HT-29 cells, using Cytochrome P450 1A1/2 Antibody. The lane on the right is blocked with the synthesized peptide.