

CYP1A2 Polyclonal Antibody | anti-CYP1A2 antibody

Anti-CYP1A2 Antibody

CATALOG # AAA46318	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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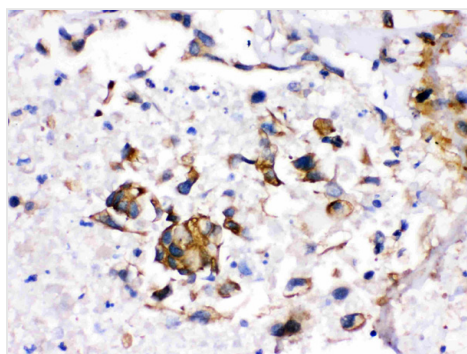
PRODUCT SYNONYMS

CYP1A2; Polyclonal Antibody; Anti-CYP1A2 Antibody; Cytochrome P450 1A2; Aryl hydrocarbon hydroxylase; CP 12; CP12; CP1A2_HUMAN; CYPIA2; Cytochrome P(3)450; Cytochrome P450 4; Cytochrome P450 family 1 polypeptide 2; Cytochrome P450 family 1 subfamily A polypeptide 2; Cytochrome P450 subfamily I aromatic compound inducible polypeptide 2; Cytochrome P450-P3; Cytochrome P4501A2; Dioxin inducible P3 450; Flavoprotein linked monooxygenase; Microsomal monooxygenase; P(3)450; P3 450; P450 4; P450 form 4; P450 P3; P450(PA); Xenobiotic monooxygenase antibody; cytochrome P450; family 1; subfamily A; polypeptide 2; anti-CYP1A2 antibody

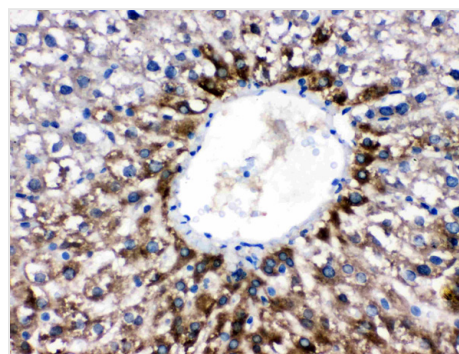
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	516
Applicable Applications for anti-CYP1A2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human CYP1A2 recombinant protein (Position: H185-D320). Human CYP1A2 shares 69.9% and 72.1% amino acid (aa) sequence identity with mouse and rat CYP1A2, respectively.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

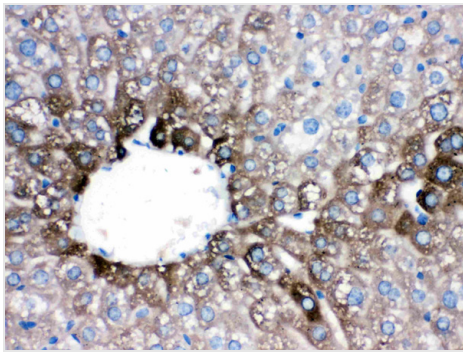
IMAGES



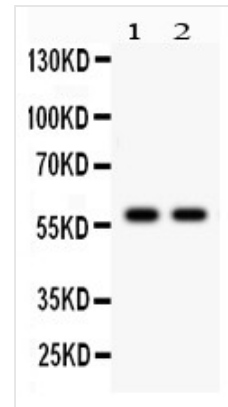
IHC (Immunohistochemistry)
Anti- CYP1A2 Picoband antibody, AAA46318, IHC(P)IHC(P): Human Liver Cancer Tissue



IHC (Immunohistochemistry)
Anti- CYP1A2 Picoband antibody, AAA46318, IHC(P)IHC(P): Rat Liver Tissue



IHC (Immunohistochemistry)
Anti- CYP1A2 Picoband antibody, AAA46318, IHC(P)IHC(P): Mouse Liver Tissue



WB (Western Blot)
Anti- CYP1A2 Picoband antibody, AAA46318, Western blottingAll lanes: Anti CYP1A2 (AAA46318) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Mouse Liver Tissue Lysate at 50ugPredicted bind size: 58KDObserved bind size: 58KD

ADDITIONAL INFORMATION

Related Product Information for anti-CYP1A2 antibody	Description: Rabbit IgG polyclonal antibody for Cytochrome P450 1A2(CYP1A2) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: CYP1A2 (Cytochrome P450, Subfamily I, Polypeptide 2) is a member of the cytochrome P450 mixed-function oxidase system and is involved in the metabolism of xenobiotics in the body. CYP1A2 is a member of the cytochrome P450 superfamily of enzymes. In humans, the CYP1A2 enzyme is encoded by the CYP1A2 gene. CYP1A2 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 CYP1A2 gene encodes a P450 enzyme involved in O-deethylation of phenacetin. Ikeya et al. (1989) found that the human CYP1A2 gene spans almost 7.8 kb and contains 7 exons. The CYP1A2 gene is mapped on 15q24.1. CYP1A2 accounts for nearly 15% of the cytochrome P450 in the human liver. CYP1A2 displays higher activity in men than in women, and is inhibited by oral contraceptives. Inducers of CYP1A2 include cruciferous vegetables. Cigarette smoking has also been shown to increase CYP1A2 activity. Expression of CYP1A2 appears to be induced by various dietary constituents.
References	1. Browning, S. L., Tarekegn, A., Bekele, E., Bradman, N., Thomas, M. G. CYP1A2 is more variable than previously thought: a genomic biography of the gene behind the human drug-metabolizing enzyme. <i>Pharmacogenet. Genomics</i> 20: 647-664, 2010. 2. Ikeya, K., Jaiswal, A. K., Owens, R. A., Jones, J. E., Nebert, D. W., Kimura, S. Human CYP1A2: sequence, gene structure, comparison with the mouse and rat orthologous gene, and differences in liver 1A2 mRNA expression. <i>Molec. Endocr.</i> 3: 1399-1408, 1989. 3. Nakajima, M., Yokoi, T., Mizutani, M., Kinoshita, M., Funayama, M., Kamataki, T. Genetic polymorphism in the 5-prime-flanking region of human CYP1A2 gene: effect on theCYP1A2 inducibility in humans. <i>J. Biochem.</i> 125: 803-808, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	73915100
NCBI GeneID	1544
NCBI Accession #	NP_000752.2
NCBI GenBank Nucleotide #	NM_000761.4
UniProt Accession #	P05177 ; Q16754 ; Q6NWX5 ; Q9BXX7 ; Q9UK49
Molecular Weight	58,407 Da
NCBI Official Full Name	cytochrome P450 1A2
NCBI Official Synonym Full Names	cytochrome P450 family 1 subfamily A member 2
NCBI Official Symbol	CYP1A2
NCBI Official Synonym Symbols	CP12; P3-450; P450(PA)

NCBI Protein Information	cytochrome P450 1A2
UniProt Protein Name	Cytochrome P450 1A2
UniProt Gene Name	CYP1A2
UniProt Entry Name	CP1A2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cyp1a2-antibody-immunohistochemistry-western-blot-elisa/46318>