## For Research Use Only

## CYP1A2-Specific Polyclonal antibody Catalog Number: 19936-1-AP 42 Publications



Size:			0 ,	Method: hity purification	
	GeneID (NCBI): 1544 UNIPROT ID: P05177		Recommended Dilutions:		
500 ug/ml			WB 1:500-1:2000		
Source: Rabbit Isotype: IgG			protein lysate		
	Full Name:		IHC 1:100-1:400	00	
	cytochrome P450, family 1, subfamil A, polypeptide 2		Y Y	00	
	Calculated MW: 58 kDa	Calculated MW: 58 kDa			
	Observed MW: 58 kDa				
Tested Applications:		Positive Controls: WB : mouse liver tissue,			
WB, IHC, IF/ICC, FC (Intra), IP, ELIS/	A				
WB, IHC, IF			ver tissue,		
Species Specificity:		IHC : human liver tissue, mouse liver tissue			
human, mouse, rat	human, mouse, rat IF/ICC : He			La cells,	
Cited Species: human, mouse, rat					
Note-IHC: suggested antigen TE buffer pH 9.0; (*) Alterna retrieval may be performed buffer pH 6.0	n retrieval with tively, antigen with <mark>citrate</mark>				
CYP1A2, also named as CP12; P3-450 and P450(PA), belongs to the cytochrome P450 family. Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, CYP1A2 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 of CYP1A2 is in catalyzing 2-hydroxylation. Caffeine is metabolized primarily by cytochrome CYP1A2 in the liver through an initial N3-demethylation. It also acts in the metabolism of aflatoxin B1 and acetaminophen. CYP1A2 participates in the bioactivation of carcinogenic aromatic and heterocyclic amines. It catalizes the reaction: RH + reduced flavoprotein + O2 = ROH + oxidized flavoprotein + H2O. The antibody is specifi to CYP1A2.					
Author	ubmed ID	lournal		Application	
Fenja A Schuran 33	2932016	Cell Mol Gastroenter	ol Hepatol	IF,WB	
Linjie Lv 2	5203445 I	Hepatology		IF	
Shotaro Uehara 30	6050438	Sci Rep		WB	
Storage:	after shipment.				
	Source: Rabbit Isotype: IgG Tested Applications: WB, IHC, IF/ICC, FC (Intra), IP, ELIS Cited Applications: WB, IHC, IF Species Specificity: human, mouse, rat Cited Species: human, mouse, rat Note-IHC: suggested antiger TE buffer pH 9.0; (*) Alternar retrieval may be performed buffer pH 6.0 CYP1A2, also named as CP12; P3-4 a group of heme-thiolate monooxy electron transport pathway. It oxid and xenobiotics. Most active of CYI cytochrome CYP1A2 in the liver thi and acetaminophen. CYP1A2 partic catalizes the reaction: RH + reduced to CYP1A2. Author P Fenja A Schuran 3 Linjie Lv 2 Shotaro Uehara 3	Source:UNIPROT ID:RabbitP05177Isotype:Full Name:IgGcytochrome P45A, polypeptide :Calculated MW:58 kDaObserved MW:58 kDaObserved MW:58 kDaObserved MW:58 kDaObserved MW:58 kDaObserved MW:58 kDaSpecies Specificity:human, mouse, ratCited Species:human, mouse, ratNote-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0CYP1A2, also named as CP12; P3-450 and P450(PA), br a group of heme-thiolate monooxygenases. In liver m electron transport pathway. It oxidizes a variety of str and acetaminophen. CYP1A2 participates in the bioac catalizes the reaction: RH + reduced flavoprotein + 02 to CYP1A2.AuthorPubmed IDFenja A Schuran32932016Linjie Lv25203445Shotaro Uehara36050438	Source: UNIPROTID:   Rabbit P05177   Isotype: Full Name:   IgG cytochrome P450, family 1, subfamil A, polypeptide 2   Calculated MW: S8 kDa   Observed MW: S8 kDa   Observed MW: S8 kDa   Observed MW: S8 kDa   Cited Applications: Positive Con   WB, IHC, IF/ICC, FC (Intra), IP, ELISA WB: mouse li   Cited Applications: IP: mouse liv   WB, IHC, IF IP: mouse liv   Species Specificity: IHC: human   human, mouse, rat IF/ICC: HeLa   Cited Species: human, mouse, rat   Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0   CYP1A2, also named as CP12; P3-450 and P450(PA), belongs to the cytochm a group of heme-thiolate monooxygenases. In liver microsomes, CYP1A2 i electron transport pathway. It oxidizes a variety of structurally unrelated co and xenobiotics. Most active of CYP1A2 is in catalyzing 2-hydroxylation. C cytochrome CYP1A2 participates in the bioactivation of carcinoge catalizes the reaction: RH + reduced flavoprotein + 02 = ROH + oxidized flat to CYP1A2.   Author Pubmed ID Journal   Fenja A Schuran 32932016 Cell Mol Gastroenter	Source: UNIPROFID: In 00-400 g to 1   Rabbit P05177 protein lysate   Isotype: Full Name: IHC 1:100-1:400   IgG cytochrome P450, family 1, subfamily A, polypeptide 2   Calculated MW: 58 kDa Observed MW:   58 kDa Observed MW: 58 kDa   Observed MW: 58 kDa WB: mouse liver tissue,   Cited Applications: IP: mouse liver tissue, IHC: human liver tissue,   WB, IHC, IF IP: mouse liver tissue, IF/ICC : HeLa cells,   Cited Applications: IP: mouse liver tissue, IF/ICC : HeLa cells,   Cited Specificity: IHC: human liver tissue, mouse IF/ICC : HeLa cells,   human, mouse, rat IF/ICC : HeLa cells, Cited Species:   human, mouse, rat IF/ICC : HeLa cells, Cited Species:   human, mouse, rat IVICC : Trate a variety of structural U metated compounds, including and xenobiotics. Most active of CYP1A2, also named as CP12; P3-450 and P450(PA), belongs to the cytochrome P450 family. (a agroup of heme-thiolate monoxygenases. In liver microsomes, CYP1A2 is involved in an Nu electron transport pathway. It oxidizes a variety of structural U metated compounds, including and acetaninophen. CYP1A2 participates in the bioactivation of carcinogenic aromatic and h catalizes the reaction: RH + reduced flavoprotein	

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## Selected Validation Data



mouse liver tissue were subjected to SDS PAGE followed by western blot with 19936-1-AP (CYP1A2-Specific antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1x10^6 HepG2 cells were intracellularly stained with 0.25 ug CYP1A2-Specific Polyclonal antibody (19936-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP result of anti-CYP1A2-Specific (IP:19936-1-AP, 4ug; Detection:19936-1-AP 1:300) with mouse liver tissue lysate 4000ug.



Immunohistochemical analysis of paraffinembedded human liver tissue slide using 19936-1-AP (CYP1A2-Specific Antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using 19936-1-AP (CYP1A2-Specific antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CYP1A2-Specific antibody (19936-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).