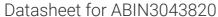
antibodies - online.com







anti-CYP1A2 antibody (AA 185-320)





Publications



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0.0		
Quantity:	100 μg	
Target:	CYP1A2	
Binding Specificity:	AA 185-320	
Reactivity:	Human, Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))	
Product Details		
Purpose:	Rabbit IgG polyclonal antibody for Cytochrome P450 1A2(CYP1A2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.	
lmmunogen:	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.	
Isotype:	IgG	
Cross-Reactivity (Details):	No cross reactivity with other proteins.	
Characteristics:	Rabbit IgG polyclonal antibody for Cytochrome P450 1A2(CYP1A2) detection. Tested with WEIHC-P in Human, Mouse, Rat. Gene Name: cytochrome P450, family 1, subfamily A, polypeptide 2 Protein Name: Cytochrome P450 1A2	
Purification:	Immunogen affinity purified.	

Target Details

Target:	CYP1A2			
Alternative Name:	CYP1A2 (CYP1A2 Products)			
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 CYP1A			
	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 ar			
	found in cigarette smoke. The CYP1A2 gene encodes a P450 enzyme involved in O-deethylatio			
	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 o			
	CYP1A2 appears to be induced by various dietary constituents.			
	Synonyms: Aryl hydrocarbon hydroxylase antibody CP 12 antibody CP12			
	antibody CP1A2_HUMAN antibody CYP1A2 antibody CYPIA2 antibody Cytochrome P(3)450			
	antibody Cytochrome P450 1A2 antibody Cytochrome P450 4 antibody Cytochrome P450			
	family 1 polypeptide 2 antibody Cytochrome P450 family 1 subfamily A polypeptide 2			
	antibody Cytochrome P450 subfamily I aromatic compound inducible polypeptide 2			
	antibody Cytochrome P450-P3 antibody Cytochrome P4501A2 antibody Dioxin inducable P3			
	450 antibody Flavoprotein linked monooxygenase antibody Microsomal monooxygenase			
	antibody P(3)450 antibody P3 450 antibody P450 4 antibody P450 form 4 antibody P450 P3			
	antibody P450(PA) antibody Xenobiotic monooxygenase antibody			
Gene ID:	1544			
UniProt:	P05177			
Application Details				
Application Notes:	WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Mouse, Rat, Predicted Species: Human			
	IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by			
	Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for th			
	staining of formalin/paraffin sections.			
	Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to b			
	fit for the product based on sequence similarities. Other applications have not been tested.			

Application Details

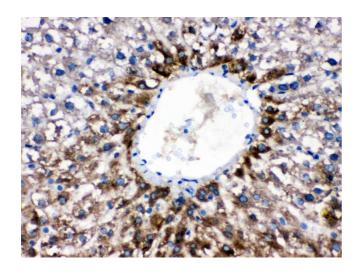
	Optimal dilutions should be determined by end users.	
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by	
	ABIN921231 in IHC(P).	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μg/mL.	
Concentration:	500 μg/mL	
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	
	should be handled by trained staff only.	
Handling Advice:	Avoid repeated freezing and thawing.	
Storage:	4 °C/-20 °C	
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.	
	It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing	
	and thawing.	
Publications		
Product cited in:	Mao, Lu, Wang, Tian, Huang, Feng, Zhang, Chang: "Role of PI3K p110β in the differentiation of	
	human embryonic stem cells into islet-like cells." in: Biochemical and biophysical research	
	communications , Vol. 488, Issue 1, pp. 109-115, (2017) (PubMed).	
	Wang, Zhou, Zhang, Wu, Zhang, Zhang: "Identification and localization of gastrointestinal	
	hormones in the skin of the bullfrog Rana catesbeiana during periods of activity and	
	hibernation." in: Acta histochemica , Vol. 116, Issue 8, pp. 1418-26, (2014) (PubMed).	
	Chen, He, Peng, Liu, Jin, Cao, Wang, Xiao: "An immunohistochemical study of somatostatin in	
	the stomach and the small intestine of the African ostrich (Struthio camelus)." in: Tissue & ce	

Vol. 45, Issue 6, pp. 363-6, (2013) (PubMed).

Jiang, Deng, Duan, Chen, Xiang, Lu, Ma: "Somatostatin receptors SSTR2 and SSTR5 are expressed in the human thoracic duct." in: **Lymphology**, Vol. 44, Issue 1, pp. 21-8, (2011) (PubMed).

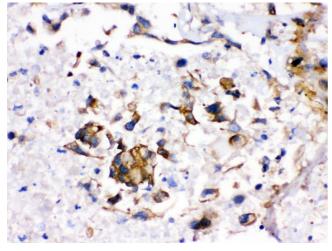
Zong, Chen, Zhang, Zou: "Effects of intra-gastric beta-casomorphin-7 on somatostatin and gastrin gene expression in rat gastric mucosa." in: **World journal of gastroenterology**, Vol. 13, Issue 14, pp. 2094-9, (2007) (PubMed).

Validation report #300031 for Immunohistochemistry (IHC)



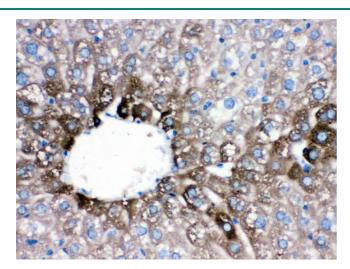
Immunohistochemistry

Image 1. Anti- CYP1A2 Picoband antibody, IHC(P): Rat Liver Tissue



Immunohistochemistry

Image 2. Anti- CYP1A2 Picoband antibody, IHC(P) IHC(P): Human Liver Cancer Tissue



Immunohistochemistry

Image 3. Anti- CYP1A2 Picoband antibody, IHC(P): Mouse Liver Tissue

Please check the product details page for more images. Overall 4 images are available for ABIN3043820.