À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-CYP1A2-Specific

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Numéro de catalogue:19936-1-AP 29 Publications

Informations de base

Numéro de catalogue:
19936-1-AP

Taille:
150ul , Concentration: 500 μg/ml by Nanodrop and 280 μg/ml by Bradford method using BSA as the standard;

Hôte:
Lapin

Isotype:
IgG

Numéro d'acquisition GenBank:
NM_000761

Identification du gène (NCBI):
1544

Nom complet:
cytochrome P450, family 1, subfamily A, polypeptide 2

MW calculé
58 kDa

MW observés:
58 kDa

Méthode de purification:
Purification par affinité contre l'antigène

Dilutions recommandées:
WB 1:500-1:2000
IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
IHC 1:100-1:400
IF 1:10-1:100

Applications

Applications testées:
FC, IF, IHC, IP, WB,ELISA

Demandes citées:
IF, WB

Spécificité de l'espèce:
Humain, rat, souris

Espèces citées:
Humain, rat, souris

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9.0; (*) À défaut, 'le démasquage de l'antigène peut être 'effectué avec un tampon citrate pH 6,0.

Contrôles positifs:

WB : tissu hépatique de souris,

IP : tissu hépatique de souris,

IHC : tissu hépatique humain,

IF : cellules HeLa,

Informations générales

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 specific to CYP1A2.

Publications notables

Autrice	Pubmed ID	Journal	Application
Fenja A Schuran	32932016	Cell Mol Gastroenterol Hepatol	IF,WB
Linjie Lv	25203445	Hepatology	IF
Shotaro Uehara	36050438	Sci Rep	WB

Stockage

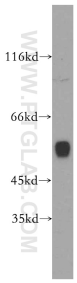
Stockage:
Stocker à -20°C. Stable pendant un an après l'expédition.
Tampon de stockage:
PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3
L'aliquotage n'est pas nécessaire pour le stockage à -20C

*** Les 20ul contiennent 0,1% de BSA.

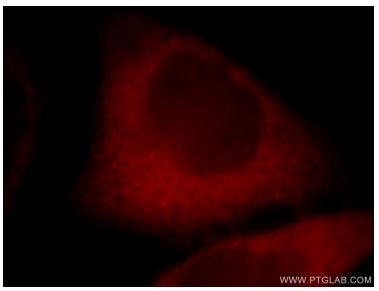
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

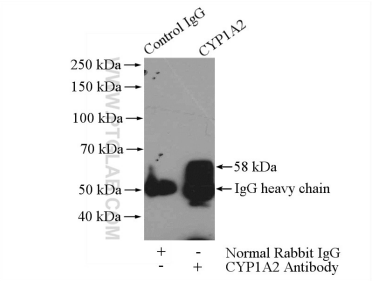
Données de validation sélectionnées



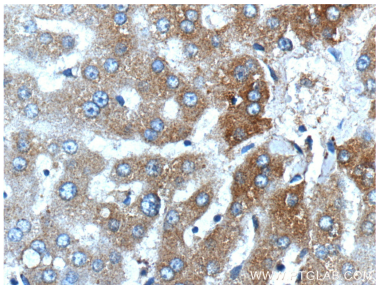
mouse liver tissue were subjected to SDS PAGE followed by western blot with 19936-1-AP (CYP1A2-Specific antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



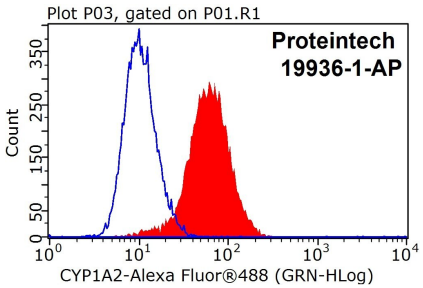
Immunofluorescent analysis of Hela cells, using CYP1A2 antibody 19936-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



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



1X10^6 HeLa cells were stained with .5ug CYP1A2-Specific antibody (19936-1-AP, red) and control antibody (blue). Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100. FITC-Goat anti-Rabbit IgG with dilution 1:100.