

For Research Use Only

CYP2E1-Specific Polyclonal antibody

Catalog Number: 19937-1-AP

Featured Product

109 Publications



Basic Information

Catalog Number:

19937-1-AP

Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_000773

GeneID (NCBI):

1571

UNIPROT ID:

P05181

Full Name:

cytochrome P450, family 2, subfamily E, polypeptide 1

Calculated MW:

57 kDa

Observed MW:

50-57 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

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

Positive Controls:

WB: mouse liver tissue, Jurkat cells, rat liver tissue

IHC: human liver cancer tissue,

IF/ICC: HepG2 cells, HeLa cells

Background Information

CYP2E1, also named as CYP11E1, 4-nitrophenol 2-hydroxylase, P450-J and CYP2E, belongs to the cytochrome P450 family. CYP2E1 metabolizes several precarcinogens, drugs, and solvents to reactive metabolites. It inactivates a number of drugs and xenobiotics and also bioactivates many xenobiotic substrates to their hepatotoxic or carcinogenic forms. CYP2E1 catalyze the reaction: 4-nitrophenol + NADPH + O₂ = 4-nitrocatechol + NADP⁺ + H₂O. CYP2E1 can be detected as 50-57 kDa (full-length) and ~40 kDa (N-terminal signal peptide cleaved) (PMID: 21130154). The antibody is specific to CYP2E1.

Notable Publications

Author	Pubmed ID	Journal	Application
Xufeng Tao	25083618	Transplantation	WB
Jing Yuan	31543403	Cell Metab	WB
Feixue Liu	36113268	Ecotoxicol Environ Saf	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

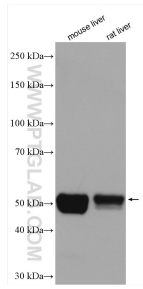
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

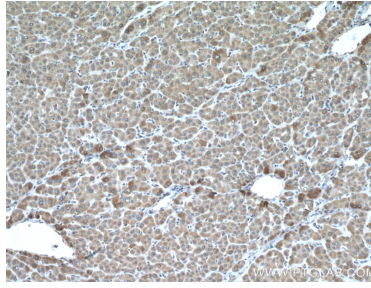
E: proteintech@ptglab.com
W: ptglab.com

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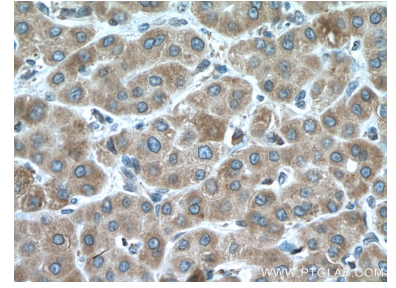
Selected Validation Data



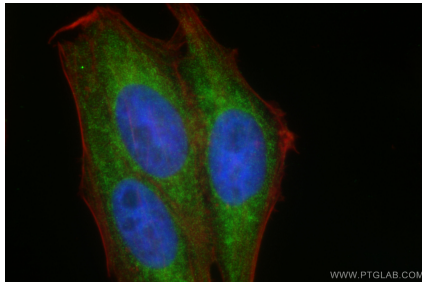
Various lysates were subjected to SDS PAGE followed by western blot with 19937-1-AP (CYP2E1-Specific antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 19937-1-AP (CYP2E1-Specific antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 19937-1-AP (CYP2E1-Specific antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CYP2E1-Specific antibody (19937-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).