

# CYP2E1-Specific Monoclonal antibody

 Catalog Number: 67263-1-Ig 4 Publications

## Basic Information

<b>Catalog Number:</b> 67263-1-Ig	<b>GenBank Accession Number:</b> NM_000773	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 2100 µg/ml	<b>GeneID (NCBI):</b> 1571	<b>CloneNo.:</b> 1F12G7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P05181	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:500-1:2000 IF 1:200-1:800
<b>Isotype:</b> IgG2b	<b>Full Name:</b> cytochrome P450, family 2, subfamily E, polypeptide 1	
	<b>Calculated MW:</b> 57 kDa	
	<b>Observed MW:</b> 50-57 kDa	

## Applications

<b>Tested Applications:</b> IF-P, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC	<b>WB :</b> pig liver tissue, rat liver tissue, mouse liver tissue
<b>Species Specificity:</b> mouse, rat, pig, human	<b>IHC :</b> human liver tissue, human liver cancer tissue
<b>Cited Species:</b> mouse	<b>IF :</b> mouse liver tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

CYP2E1, also named as CYP1B1, 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 + O<sub>2</sub> = 4-nitrocatechol + NADP<sup>+</sup> + H<sub>2</sub>O. 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
Min Wei	36182737	Biomed Pharmacother	WB
Huan Yang	34366426	Med Sci Monit	WB
Qianqian Xu	35559264	Front Pharmacol	WB, IHC

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
 Aliquoting is unnecessary for -20°C storage

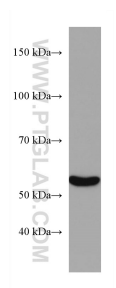
For technical support and original validation data for this product please contact:

T: 4006900926

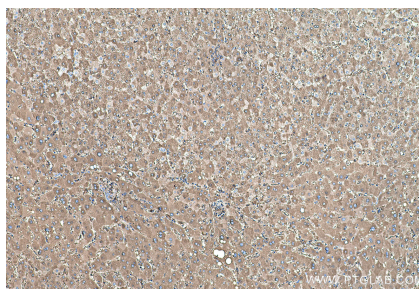
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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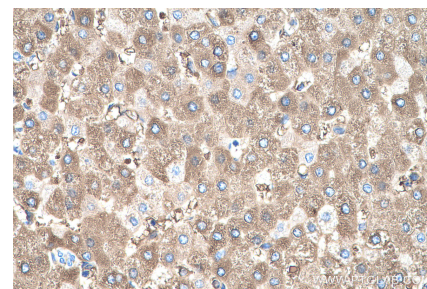
## Selected Validation Data



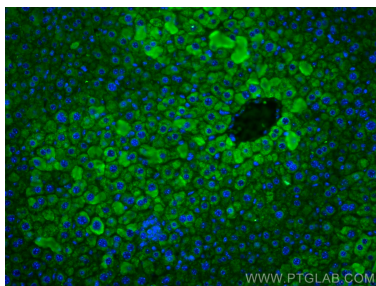
pig liver tissue were subjected to SDS PAGE followed by western blot with 67263-1-Ig (CYP2E1-Specific antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 67263-1-Ig (CYP2E1-Specific antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 67263-1-Ig (CYP2E1-Specific antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using CYP2E1-Specific antibody (67263-1-Ig, Clone: 1F12G7 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).