

CoraLite® Plus 488-conjugated CYP2E1-Specific Monoclonal antibody

Catalog Number: **CL488-67263**

Basic Information

Catalog Number: CL488-67263	GenBank Accession Number: NM_000773	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 1571	CloneNo.: 1F12G7
Source: Mouse	UNIPROT ID: P05181	Recommended Dilutions: IF-P 1:50-1:500
Isotype: IgG2b	Full Name: cytochrome P450, family 2, subfamily E, polypeptide 1	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
	Calculated MW: 57 kDa	
	Observed MW: 50-57 kDa	

Applications

Tested Applications:

IF-P

Species Specificity:

mouse, rat, pig, human

Positive Controls:

IF-P: mouse liver tissue,

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.

Storage

Storage:

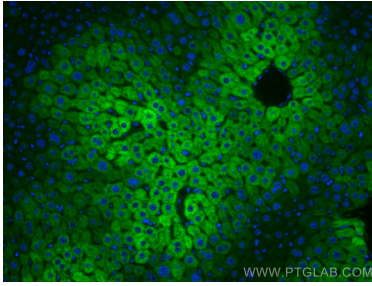
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

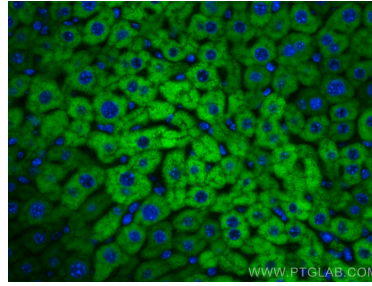
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using CoraLite® Plus 488 CYP2E1-Specific antibody (CL488-67263, Clone: 1F12G7) at dilution of 1:200.



Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using CoraLite® Plus 488 CYP2E1-Specific antibody (CL488-67263, Clone: 1F12G7) at dilution of 1:200.