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Product datasheet for TA500717BM

Cytochrome P450 2E1 (CYP2E1) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI5F11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5F11
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:500, IHC 1:50, IF 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human CYP2E1 (NP_000764) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	HRP
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	56.8 kDa
Gene Name:	cytochrome P450 family 2 subfamily E member 1
Database Link:	NP_000764 Entrez Gene 1571 Human P05181

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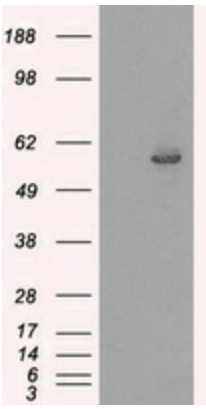
Background: This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and is induced by ethanol, the diabetic state, and starvation. The enzyme metabolizes both endogenous substrates, such as ethanol, acetone, and acetal, as well as exogenous substrates including benzene, carbon tetrachloride, ethylene glycol, and nitrosamines which are premutagens found in cigarette smoke. Due to its many substrates, this enzyme may be involved in such varied processes as gluconeogenesis, hepatic cirrhosis, diabetes, and cancer.

Synonyms: CPE1; CYP2E; P450-J; P450C2E

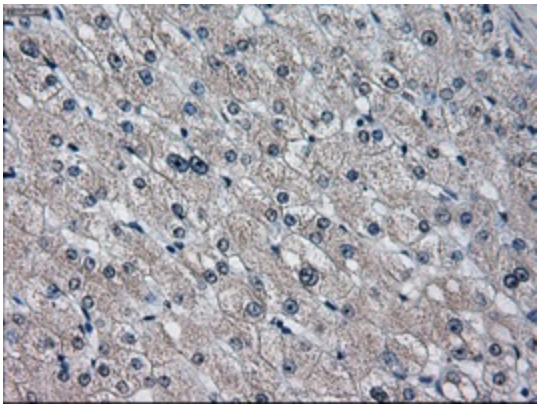
Protein Families: Druggable Genome, P450, Transmembrane

Protein Pathways: Arachidonic acid metabolism, Drug metabolism - cytochrome P450, Linoleic acid metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450

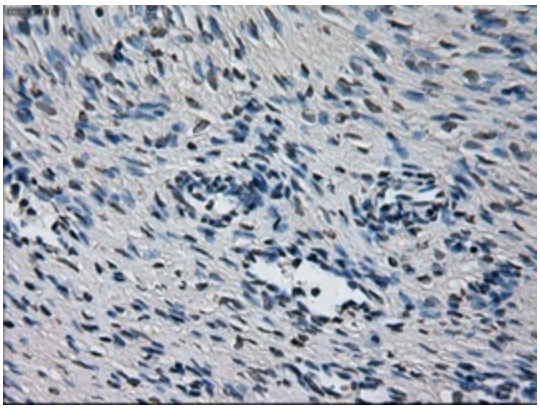
Product images:



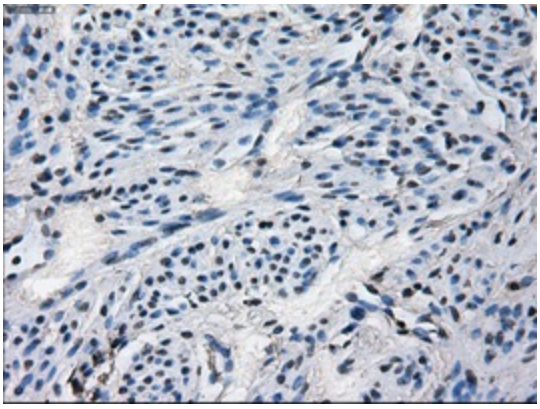
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CYP2E1 ([RC213502], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CYP2E1. Positive lysates [LY400264] (100ug) and [LC400264] (20ug) can be purchased separately from OriGene.



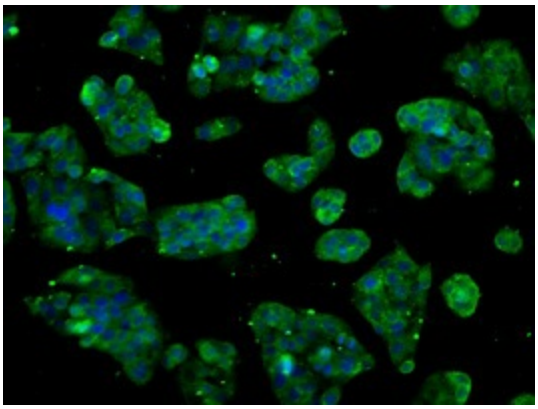
Immunohistochemical staining of paraffin-embedded liver tissue within the normal limits using anti-CYP2E1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500717], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded Ovary tissue within the normal limits using anti-CYP2E1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500717], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded endometrium tissue within the normal limits using anti-CYP2E1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500717], Dilution 1:50)



Immunofluorescent staining of HepG2 cells using anti-CYP2E1 mouse monoclonal antibody ([TA500717]).