

Name: CYP2A6 (Cytochrome P450 2A6) mouse monoclonal antibody, clone OTI5F8 (formerly 5F8)

Catalog: TA503805

Product Data Sheet - TRUEMAB

Components:	<ul style="list-style-type: none"> • CYP2A6 (Cytochrome P450 2A6) mouse monoclonal antibody, clone OTI5F8 (formerly 5F8) (TA503805) • WB positive control also available: 20ug myc-DDK tagged CYP2A6 HEK293T over-expression lysate lyophilized in RIPA buffer (LC424530). (Reconstitute into 20ul of 1x SDS sample buffer before loading; load 5ul per lane as WB control or as desired)
Amount:	100ul
Immunogen:	Full length human recombinant protein of human CYP2A6(NP_000753) produced in HEK293T cell.
Host:	Mouse
Isotype:	IgG2b
Species Reactivity:	Human
Guaranteed Applications:	WB, IHC, IF, FC
Suggested Dilutions:	WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100,
Concentration:	0.83 mg/ml
Buffer:	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Purification:	Purified from mouse ascites fluids by affinity chromatography
Storage Condition:	Shipped at -20C. Upon delivery store at -20C. Dilute in PBS (pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.

Target

Target Name:	Homo sapiens cytochrome P450, family 2, subfamily A, polypeptide 6 (CYP2A6)
Alternative Name:	CPA6; CYP2A; CYP2A3; CYPIIA6; P450C2A; P450PB
Database Info:	NP_000753 Entrez Gene 1548 Human
Function:	This gene, CYP2A6, 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

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.

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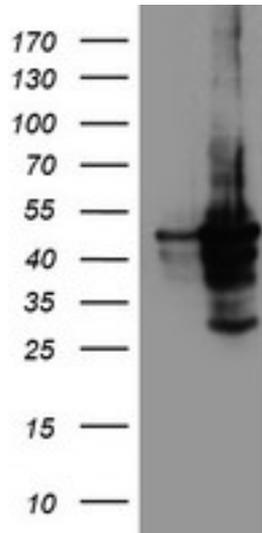
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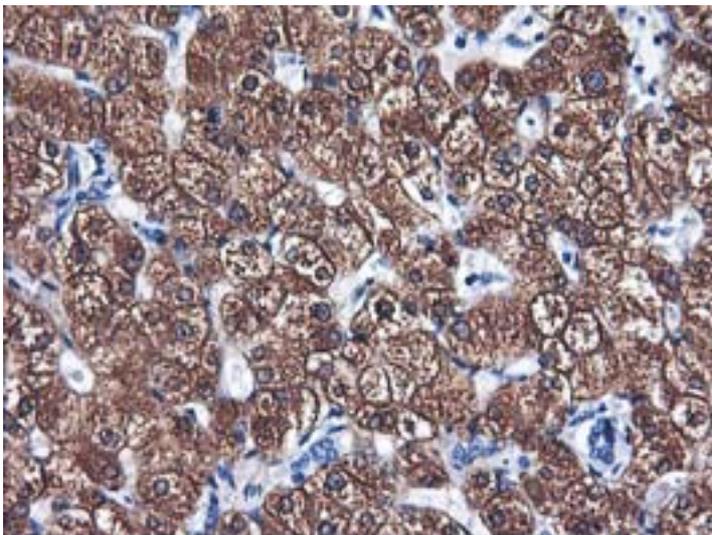
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endoplasmic reticulum and its expression is induced by phenobarbital. The enzyme is known to hydroxylate coumarin, and also metabolizes nicotine, aflatoxin B1, nitrosamines, and some pharmaceuticals. Individuals with certain allelic variants are said to have a poor metabolizer phenotype, meaning they do not efficiently metabolize coumarin or nicotine. This gene is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. The gene was formerly referred to as CYP2A3; however, it has been renamed CYP2A6. [provided by RefSeq, Jul 2008].

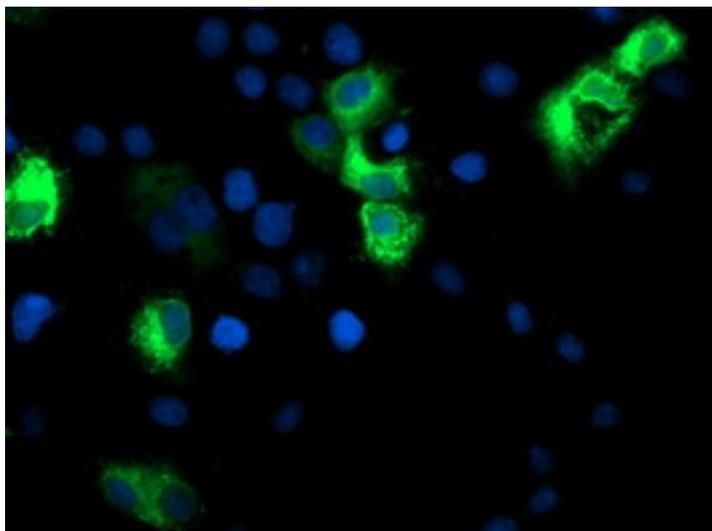
Validation Data



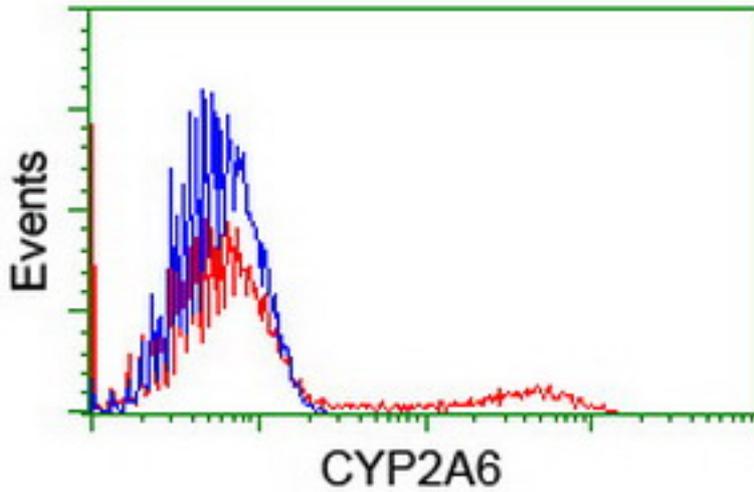
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CYP2A6 (RC222995, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CYP2A6.



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-CYP2A6 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100C for 10min, TA503805)



Anti-CYP2A6 mouse monoclonal antibody (TA503805) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY CYP2A6(RC222995).



HEK293T cells transfected with either RC222995 overexpress plasmid(Red) or empty vector control plasmid(Blue) were immunostained by anti-CYP2A6 antibody(TA503805), and then analyzed by flow cytometry.

* More validation images may be available on our website: <http://www.origene.com/antibody/TA503805.aspx>

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