Data Sheet (Cat.No.TMAC-01070)

Anti-CYP2D6 Antibody (8H168)

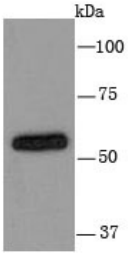
Product Details

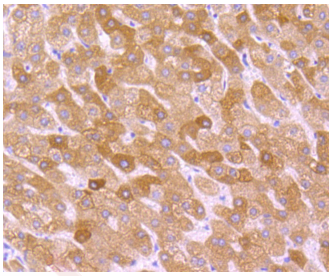
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 56 kDa.
Clone:	8H168
Purification:	ProA affinity purified

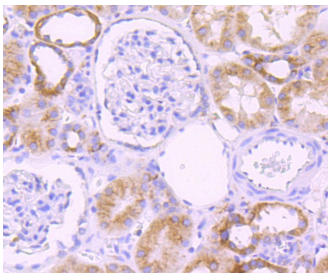
Applications

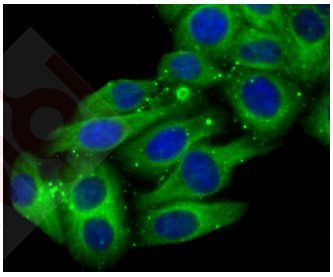
Verified Activity:

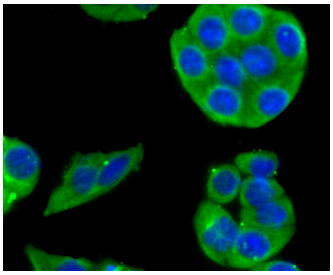
1. Western blot analysis of Cytochrome P450 2D6 on HepG2 cell using anti-Cytochrome P450 2D6 antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Cytochrome P450 2D6 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Cytochrome P450 2D6 antibody. Counter stained with hematoxylin.
4. ICC staining Cytochrome P450 2D6 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining Cytochrome P450 2D6 in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. Flow cytometric analysis of SW480 cells with Cytochrome P450 2D6 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

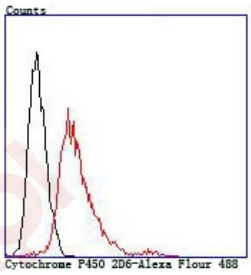












Application: FCM,ICC/IF,IHC,WB

Recommended: WB: 1:500-2000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P10635

Synonyms: Microsomal monooxygenase;CYP2D7P2;CYP2DL1;Cytochrome P450 family 2 subfamily D member 6;CPD6;P450 DB1;CYP2D8P2;CYP2D7AP;Xenobiotic monooxygenase;CYP2D6; CYP2D7BP;P450C2D;CYP2D;Cytochrome P450 family 2 subfamily D polypeptide 6;CYPIID6; P450DB1;Debrisoquine 4 hydroxylase;Flavoprotein linked monooxygenase;Cytochrome P450 DB1

Research Background

The P450II family comprises at least five subfamilies, designated A through E by the system of nomenclature recommended by an international committee. The P450IID subfamily comprises at least two genes in the rat, one of which is highly specific for debrisoquine 4-hydroxylase activity. An association of this gene with lung cancer has been found. Enhanced CYP2D6 activity has been related to malignancies of the bladder, liver, pharynx and stomach, and especially to cigarette-smoking-induced lung cancer. The data suggests that enhanced CYP2D6-mediated metabolism of one or more dietary and other environmental agents, to form a reactive intermediate, plays a role in cancer initiation and/or promotion in various tissues. CYP2D6 polymorphism, which is responsible for the variation in metabolism of debrisoquine 4-hydroxylase, is important in the metabolism of more than 30 drugs and environmental chemicals, including as much as 20% of all commonly prescribed drugs. The gene which encodes CYP2D6 maps to human chromosome 22q13.1.

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