Datasheet for ABIN655056

anti-CYP2B6 antibody (AA 235-263)

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Overview

Quantity:	400 µL
Target:	CYP2B6
Binding Specificity:	AA 235-263
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYP2B6 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This CYP2B6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 235-263 amino acids from the Central region of human CYP2B6.
Clone:	RB16992
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	CYP2B6
Alternative Name:	CYP2B6 (CYP2B6 Products)

Target Details

Background:	This gene, CYP2B6, 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 its expression is induced by phenobarbital. The enzyme is known to metabolize some xenobiotics, such as the anti-cancer drugs cyclophosphamide and ifosphamide. Transcript variants for this gene have been described, however, it has not been resolved whether these transcripts are in fact produced by this gene or by a closely related pseudogene, CYP2B7. Both the gene and the pseudogene are located in the middle of a CYP2A pseudogene found in a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q.
Molecular Weight:	56278
Gene ID:	1555
NCBI Accession:	NP_000758
UniProt:	P20813

Application Details

Application Notes:	IF: 1:25. WB: 1:2000. IHC-P: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

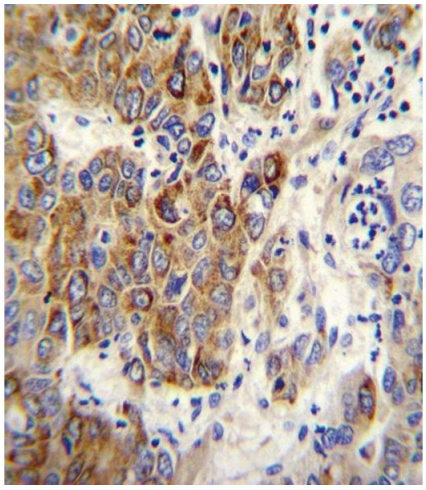
Publications

Product cited in:

Okamatsu, Komatsu, Ono, Inoue, Uchide, Onaga, Endoh, Kitazawa, Hiraga, Uno, Teraoka: " Characterization of feline cytochrome P450 2B6." in: **Xenobiotica; the fate of foreign compounds in biological systems**, Vol. 47, Issue 2, pp. 93-102, (2017) (PubMed).

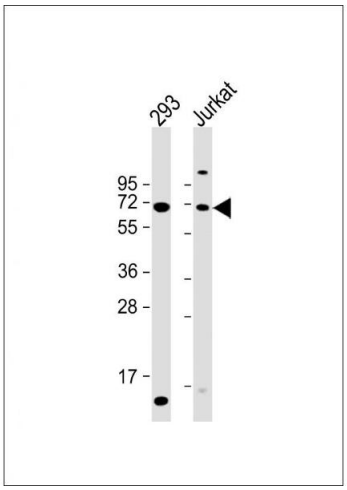
Hlavá?, Brynychová, Václavíková, Ehrlichová, Vrána, Pecha, Trnková, Kodet, Mrhalová, Kubá?ková, Gat?k, Vážan, Sou?ek: "The role of cytochromes p450 and aldo-keto reductases in prognosis of breast carcinoma patients." in: **Medicine**, Vol. 93, Issue 28, pp. e255, (2014) (PubMed).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. CYP2B6 Antibody (Center) (ABIN655056 and ABIN2844685) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CYP2B6 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

Image 2. All lanes : Anti-CYP2B6 Antibody (Center) at 1:2000 dilution Lane 1: 293 whole cell lysate Lane 2: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 56 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

Immunofluorescence

Image 3. Immunofluorescent analysis of 4 % paraformaldehyde-fixed, 0.1 % Triton X-100 permeabilized MCF-7 (human breast cancer cell line) cells labeling CYP2B6 with C at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-rabbit IgG (NK179883) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing endosomes staining on MCF-7 cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (PD18466410) at 1/100 dilution (red). The nuclear counter stain is DI (blue).