

# CYP2A6 Polyclonal Antibody

## Product Details

Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Purified, His-tagged, full length human P450 2A6 fusion protein.
Form	Liquid
Purification	Ammonium sulfate precipitation
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2230297

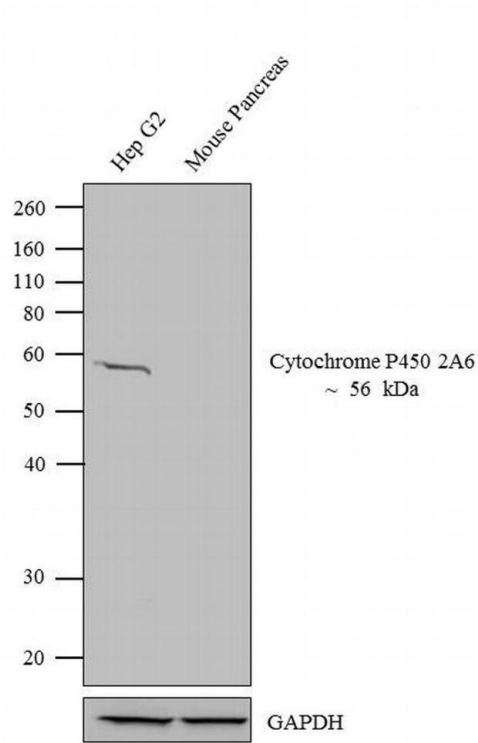
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:5,000	-
Immunohistochemistry (IHC)	-	1 Publication

## Product Specific Information

PA1-342 detects cytochrome P450 (P450) 2A6 from human, mouse and rat samples. This antibody detects, to a lesser extent, other P450 isoforms.

PA1-342 has been successfully used in Western blot procedures. By Western blot, this antibody detects an ~49 kDa protein representing P450 2A6 from rat liver extract.

The PA1-342 immunogen is purified, His-tagged, full length human P450 2A6 fusion protein.



**CYP2A6 Antibody (PA1-342) in WB**

Western blot analysis was performed on whole cell extracts (30 µg lysate) of Hep G2 (Lane 1) and Mouse Pancreas (Lane 2). The blots were probed with Anti-Cytochrome P450 2A6 Rabbit polyclonal Antibody (Product # PA1-342, 1:1000-1:5000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Secondary Antibody, HRP conjugate (Product # G-21234, 1:5000 dilution). A 56 kDa band corresponding to Cytochrome P450 2A6 was observed in Hep G2 but not in Mouse Pancreas. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0301BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

Fig. 1



**CYP2A6 Antibody (PA1-342) in WB**

Western blot detection of cytochrome P450 2A6 from rat liver extract using Product # PA1-342.

## Immunohistochemistry (1)

Toxicological sciences : an official journal of the Society of Toxicology

### Expression and activity of cytochromes P450 2E1, 2A, and 2B in the mouse ovary: the effect of 4-vinylcyclohexene and its diepoxide metabolite.

"PA1-342 was used in immunohistochemistry to characterize CYP450 isoforms in mouse ovary and to evaluate the effects of in vivo dosing with VCH and VCD on them"

Authors: Cannady EA,Dyer CA,Christian PJ,Sipes IG,Hoyer PB

Year  
2003

Species  
Mouse

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