

CYP2A6 Polyclonal Antibody

Catalog NumberPA5-27890

Product data sheet

| Details            |  | Species Reactivity   |               |
|--------------------|--|--|---------------|
| Size               | 100 µL   | Species reactivity   | Human         |
| Host/Isotope       | Rabbit / IgG   | Tested Applications  |               |
| Class              | Polyclonal   | Dilution *   |               |
| Type               | Antibody   | Western Blot (WB)  | 1:500-1:3,000 |
| Immunogen          | Synthetic peptide corresponding to a region within amino acids 312 and 406 of Human CYP2A    | * Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls. |               |
| Conjugate          | Unconjugated   |  |               |
| Form               | Liquid   |  |               |
| Concentration      | 1 mg/mL  |  |               |
| Purification       | Antigen affinity chromatography  |  |               |
| Storage buffer     | PBS, pH 7, with 40% glycerol   |  |               |
| Contains           | 0.01% thimerosal   |  |               |
| Storage Conditions | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. |  |               |

Product specific information

Recommended positive controls: 293T, A431, H1299, HeLaS3. Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

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 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.

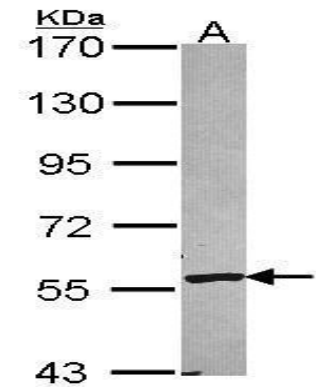
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Product Images For CYP2A6 Polyclonal Antibody



**CYP2A6 Antibody (PA5-27890) in WB**  
Western Blot using CYP2A6 Polyclonal Antibody (Product # PA5-27890). Sample (30 µg of whole cell lysate). Lane A: H1299 . 7.5% SDS PAGE. CYP2A6 Polyclonal Antibody (Product # PA5-27890) diluted at 1:1,000.

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