10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# CYP2A7 Polyclonal Antibody

Catalog # AP69390

## Product Information

| | |
|---|---|
| **Application** | WB, IHC-P, IF, ICC, E |
| **Primary Accession** | P20853 |
| **Reactivity** | Human, Rat, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 56425 |

## Additional Information

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|---|---|
| **Gene ID** | 1549 |
| **Other Names** | CYP2A7; Cytochrome P450 2A7; CYPIIA7; Cytochrome P450 IIA4 |
| **Dilution** | WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A |
| **Format** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| **Storage Conditions** | -20℃ |

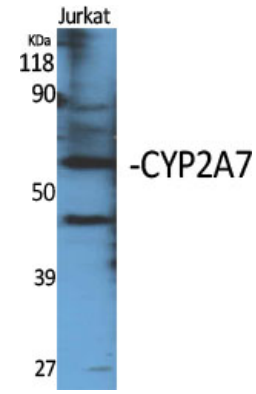
## Protein Information

| | |
|---|---|
| **Name** | CYP2A7 |
| **Synonyms** | CYP2A4 {ECO:0000303\|PubMed:2322567} |
| **Function** | Xenobiotic-metabolizing enzyme that can catalyze the hydroxylation of species-specific aromatic amine substrates (PubMed:38792050). Catalyzes the hydroxylation of diclofenac to a hydroxydiclofenac metabolite in vitro, suggesting a potential role in drug metabolism (PubMed:38792050). Does not metabolize nicotine, coumarin, or 7-ethoxycoumarin (PubMed:38792050). |
| **Cellular Location** | Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein |

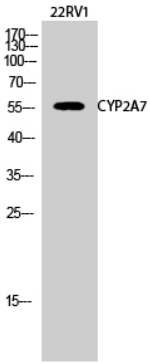
## Background

Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics.

## Images




Western Blot analysis of various cells using CYP2A7 Polyclonal Antibody diluted at 1：2000




Western Blot analysis of 22RV1 cells using CYP2A7 Polyclonal Antibody diluted at 1：2000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.