

# CYP3A7 Polyclonal Antibody

Catalog # AP69414

## Product Information

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Application	WB
Primary Accession	<a href="#">P24462</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57470

## Additional Information

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Gene ID	100861540;1551
Other Names	CYP3A7; Cytochrome P450 3A7; CYP11A7; Cytochrome P450-HFLA
Dilution	WB--Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

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Name	CYP3A7 {ECO:0000303   PubMed:17178770, ECO:0000312   HGNC:HGNC:2640}
Function	<p>A cytochrome P450 monooxygenase involved in the metabolism of steroid hormones and vitamins during embryogenesis (PubMed:<a href="#">11093772</a>, PubMed:<a href="#">12865317</a>, PubMed:<a href="#">14559847</a>, PubMed:<a href="#">17178770</a>, PubMed:<a href="#">9555064</a>). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (NADPH-- hemoprotein reductase) (PubMed:<a href="#">11093772</a>, PubMed:<a href="#">12865317</a>, PubMed:<a href="#">14559847</a>, PubMed:<a href="#">17178770</a>, PubMed:<a href="#">9555064</a>). Catalyzes the hydroxylation of carbon-hydrogen bonds. Metabolizes 3beta-hydroxyandrost-5-en-17-one (dehydroepiandrosterone, DHEA), a precursor in the biosynthesis of androgen and estrogen steroid hormones (PubMed:<a href="#">17178770</a>, PubMed:<a href="#">9555064</a>). Exhibits high catalytic activity for the formation of hydroxyestrogens from estrone (E1), particularly D- ring hydroxylated estrone at the C16-alpha position (PubMed:<a href="#">12865317</a>, PubMed:<a href="#">14559847</a>). Mainly hydroxylates all trans-retinoic acid (atRA) to 4-hydroxyretinoate and may play a role in atRA clearance during fetal development (PubMed:<a href="#">11093772</a>). Also involved in the oxidative metabolism</p>

of xenobiotics including anticonvulsants (PubMed:[9555064](#)).

**Cellular Location**

Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

**Tissue Location**

Expressed in fetal liver (at protein level).

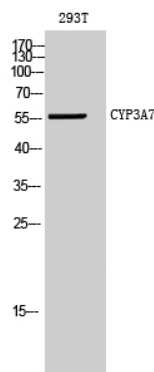
## Background

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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

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Western Blot analysis of 293T cells using CYP3A7  
Polyclonal Antibody diluted at 1 : 500

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