# antibodies -online.com







# anti-CYP3A7 antibody (Middle Region)



Image



Publication



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Quantity:	100 μL
Target:	CYP3A7
Binding Specificity:	Middle Region
Reactivity:	Human, Rat, Cow, Dog, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYP3A7 antibody is un-conjugated
Application:	Western Blotting (WB)

# **Product Details**

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human CYP3A7
Sequence:	KSVKQIKEGR LKETQKHRVD FLQLMIDSQN SKDSETHKAL SDLELMAQSI
Predicted Reactivity:	Cow: 77%, Dog: 75%, Guinea Pig: 83%, Human: 100%, Rat: 85%
Characteristics:	This is a rabbit polyclonal antibody against CYP3A7. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

# **Target Details**

Target:	CYP3A7
Alternative Name:	CYP3A7 (CYP3A7 Products)

# Target Details

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CYP3A7 is 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 enzyme hydroxylates testosterone and dehydroepiandrosterone 3-sulphate, which is involved in the formation of estriol during pregnancy. The enzyme also metabolizes some drugs such as aflatoxin B1. This gene, CYP3A7, 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 enzyme hydroxylates testosterone and dehydroepiandrosterone 3-sulphate, which is involved in the formation of estriol during pregnancy. The enzyme also metabolizes some drugs such as aflatoxin B1. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Transcript variants have been described, but it is not known whether these transcripts are normally produced.

Alias Symbols: CP37, P450-HFLA, CYPIIIA7

Protein Size: 503

Molecular Weight:	57 kDa
Gene ID:	1551
NCBI Accession:	NM_000765, NP_000756
UniProt:	P24462
Pathways:	Steroid Hormone Biosynthesis

# **Application Details**

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.	
Comment:	Antigen size: 503 AA	
Restrictions:	For Research Use only	

#### Handling

Format:	Liquid	
Concentration:	Lot specific	
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.	
Preservative:	Sodium azide	

# Handling

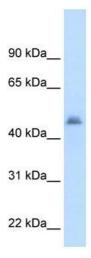
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

### **Publications**

Product cited in:

Gerhard, Wagner, Feingold, Shenmen, Grouse, Schuler, Klein, Old, Rasooly, Good, Guyer, Peck, Derge, Lipman, Collins, Jang, Sherry, Feolo, Misquitta, Lee, Rotmistrovsky, Greenhut, Schaefer, Buetow et al.: "The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). ..." in: **Genome research**, Vol. 14, Issue 10B, pp. 2121-7, (2004) (PubMed).

# **Images**



#### **Western Blotting**

**Image 1.** WB Suggested Anti-CYP3A7 Antibody Titration: 2.5ug/ml Positive Control: Human Liver