

Datasheet for ABIN2776998
anti-CYP3A7 antibody (Middle Region)



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1 Image

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Overview

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

Background: 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, CYP11A7

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:	Van Peer, Verbueken, Saad, Casteleyn, Van Ginneken, Van Cruchten: "Ontogeny of CYP3A and P-glycoprotein in the liver and the small intestine of the Göttingen minipig: an immunohistochemical evaluation." in: Basic & clinical pharmacology & toxicology , Vol. 114, Issue 5, pp. 387-94, (2014) (PubMed).
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Images



Western Blotting

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