

CYP3A1 Rabbit pAb

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Catalog # AP57807

Product Information

Application	WB
Primary Accession	P04800
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57918
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from rat CYP3A1
Epitope Specificity	231-330/504
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum, membrane bound.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	CYP3A proteins are P450 monooxygenases and in animals, P450 enzymes serve two major functions: biosynthesis of steroids, fatty acids and bile acids, and the metabolism of endogenous and exogenous substrates. A wide variety of exogenous substrates are metabolized by P450 enzymes, including toxins and drugs. The four major families involved in drug metabolism are CYP1, 2, 3 and 4. The hepatic CYP3A1 protein is detected throughout ciliated and nonciliated cells in seven-day-old rats, and is only detected in the apex of these cells in adult rats. Rat CYP3A1 and CYP3A2 share 89% homology, but differ by three out of five of their C-terminal residues.

Additional Information

Other Names	Cytochrome P450 3A1, 1.14.14.1, CYP11A1, Cytochrome P450-PCN1, Cyp3a1, Cyp3a-1
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

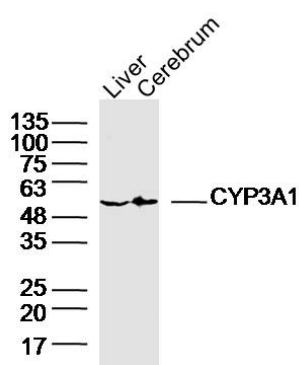
Name	Cyp3a1
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Synonyms	Cyp3a-1
Function	Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics.
Cellular Location	Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

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Images



Sample:
Liver (Rat)Lysate at 40 ug
Cerebrum (Rat)Lysate at 40 ug
Primary: Anti-CYP3A1(AP57807)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution
Predicted band size: 57kD
Observed band size: 57kD

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