

Rabbit CYP3A4 Polyclonal Antibody | anti-CYP3A4 antibody

CYP3A4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326750	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

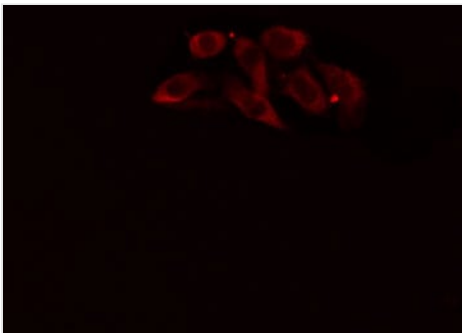
PRODUCT SYNONYMS

CYP3A4; Polyclonal Antibody; CYP3A4 Antibody; 1; 8-cineole 2-exo-monooxygenase; Albendazole monooxygenase; Albendazole sulfoxidase; CP33; CP34; CP3A4_HUMAN; CYP3; CYP3A; CYP3A3; CYP11A3; CYP11A4; Cytochrome P450 3A3; Cytochrome P450 3A4; Cytochrome P450 family 3 subfamily A polypeptide 4; Cytochrome P450 HLP; Cytochrome P450 NF-25; Cytochrome P450 subfamily IIIA polypeptide 4; cytochrome P450; subfamily IIIA (nifedipine oxidase); polypeptide 3; polypeptide 4; Cytochrome P450-PCN1; Glucocorticoid inducible P450; HLP; MGC126680; NF 25; NF25; Nifedipine oxidase; P450 III steroid inducible; P450 PCN1; P450; family III; P450C3; P450PCN1; Quinine 3 monooxygenase; Quinine 3-monooxygenase; Taurochenodeoxycholate 6 alpha hydroxylase; Taurochenodeoxycholate 6-alpha-hydroxylase; anti-CYP3A4 antibody

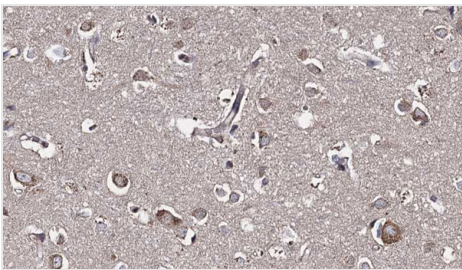
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CYP3A4 antibody detects endogenous levels of total CYP3A4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	502
Applicable Applications for anti-CYP3A4 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CYP3A4
Subcellular Location	Endoplasmic Reticulum Membrane. Microsome Membrane.
Tissue Specificity	Expressed in prostate and liver. According to some authors, it is not expressed in brain (PubMed:19094056). According to others, weak levels of expression are measured in some brain locations (PubMed:19359404 and PubMed:18545703). Also expressed in epithelium of the small intestine and large intestine, bile duct, nasal mucosa, kidney, adrenal cortex, epithelium of the gastric mucosa with intestinal metaplasia, gallbladder, intercalated ducts of the pancreas, chief cells of the parathyroid and the corpus luteum of the ovary (at protein level).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

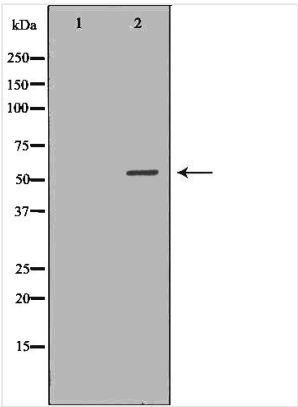
IMAGES



IF (Immunofluorescence)
AAA326750 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)
AAA326750 at 1/100 staining Human brain cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of Mouse liver, using CYP3A4 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CYP3A4 antibody	Description: Cytochrome P450 3A(CYP3A) belongs to the cytochrome P450 family and the enzymes constitute an important detoxification system that contributes to primary metabolism of more than half of all prescribed medications.CYP3A expression determines impairment of drug absorption and efficient systemic clearance in a tissue-specific manner(PMID:17975676).This antibody is specific to CYP3A4. 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 performs a variety of oxidation reactions (e.g. caffeine 8-oxidation, omeprazole sulfoxidation, midazolam 1'-hydroxylation and midazolam 4-hydroxylation) of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. Acts as a 1, 8-cineole 2-exo-monooxygenase. The enzyme also hydroxylates etoposide (PubMed:11159812). Catalyzes 4-beta-hydroxylation of cholesterol. May catalyze 25-hydroxylation of cholesterol in vitro (PubMed:21576599). Post-translational Modifications: Polyubiquitinated in the presence of AMFR and UBE2G1 and also STUB1/CHIP and UBE2D1 (in vitro). Similarity: Belongs to the cytochrome P450 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	322302351
NCBI GeneID	1576
NCBI Accession #	NP_001189784.1
NCBI GenBank Nucleotide #	NM_001202855.2
UniProt Accession #	P08684; P05184; Q16757; Q9UK50

Molecular Weight	Observed: 57 kD Predicted: 58 kDa
NCBI Official Full Name	cytochrome P450 3A4 isoform 2
NCBI Official Synonym Full Names	cytochrome P450 family 3 subfamily A member 4
NCBI Official Symbol	CYP3A4
NCBI Official Synonym Symbols	HLP; CP33; CP34; CYP3A; NF-25; CYP3A3; P450C3; CYP11A3; CYP11A4; P450PCN1
NCBI Protein Information	cytochrome P450 3A4
UniProt Protein Name	Cytochrome P450 3A4
UniProt Gene Name	CYP3A4
UniProt Synonym Gene Names	CYP3A3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/cyp3a4-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326750>