

Datasheet for ABIN733793
anti-CYP3A4 antibody (AA 18-120)

4 Images

1 Publication

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Overview

Quantity:	100 µL
Target:	CYP3A4
Binding Specificity:	AA 18-120
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYP3A4 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CYP3A4
Isotype:	IgG
Specificity:	Will detect CYP 3A4, 3A7, 3A5, and 3A9
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Pig,Rabbit,Guinea Pig
Purification:	Purified by Protein A.

Target Details

Target:	CYP3A4
Alternative Name:	CYP3A4 (CYP3A4 Products)
Background:	<p>Synonyms: Cytochrome p450 3A4, CP33, CP34, CYP3A, CYP3A3, CYP3A4, CYP11A4, CYP11A3, Cytochrome P450 family 3 subfamily A polypeptide 4, Cytochrome P450 subfamily IIIA polypeptide 4, Glucocorticoid inducible P450, HLP, MGC126680, NF 25, NF25, P450 III steroid inducible, P450 PCN1, P450C3, P450PCN1, Quinine 3 monooxygenase, Taurochenodeoxycholate 6 alpha hydroxylase, CP3A4_HUMAN, 1,8-cineole 2-exo-monooxygenase, Albendazole monooxygenase, Albendazole sulfoxidase, Cytochrome P450 3A3, Cytochrome P450 HLp, Cytochrome P450 NF-25, Cytochrome P450-PCN1, Nedipine oxidase, Quinine 3-monooxygenase, Taurochenodeoxycholate 6-alpha-hydroxylase, CYP3A4, CYP3A7, CYP3A5, CYP3A9</p> <p>Background: 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. The enzyme also hydroxylates etoposide.</p>
Molecular Weight:	46kDa
Gene ID:	1576
Pathways:	Steroid Hormone Biosynthesis

Application Details

Application Notes:	WB 1:300-5000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500
Restrictions:	For Research Use only

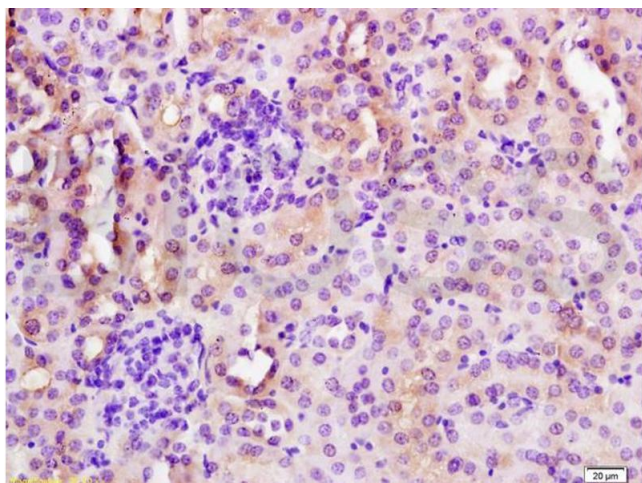
Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

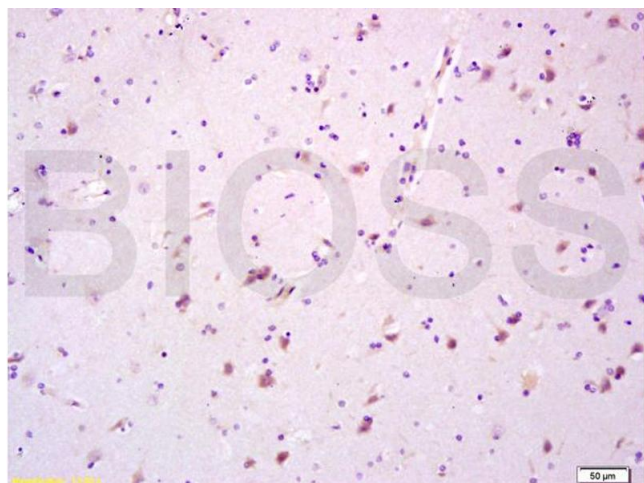
Product cited in:	Ito, Otsuki, Zhang, Konno, Kurahashi, Takahashi, Yamato, Matsuoka, Yamada, Miyata, Fujii: "Ascorbic acid reverses the prolonged anesthetic action of pentobarbital in Akr1a-knockout mice." in: Life sciences , Vol. 95, Issue 1, pp. 1-8, (2014) (PubMed).
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Images



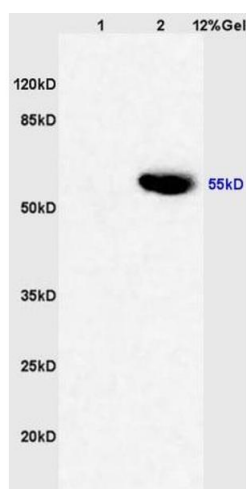
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded mouse kidney tissue labeled with Anti-CYP3A4 Polyclonal Antibody, Unconjugated (ABIN733793) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human glioma tissue labeled with Anti-CYP3A4 Polyclonal Antibody, Unconjugated (ABIN733793) at 1:200 followed by conjugation to the secondary antibody and DAB staining



SDS-PAGE

Image 3. Lane 1: rat liver lysates Lane 2: human colon carcinoma lysates probed with Anti CYP3A4 Polyclonal Antibody, Unconjugated (ABIN733793) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 55kD. Observed band size: 55kD.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN733793.