

Datasheet for ABIN7149259
anti-CYP3A4 antibody (AA 259-441)

3 Images

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Overview

Quantity:	100 µg
Target:	CYP3A4
Binding Specificity:	AA 259-441
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYP3A4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Cytochrome P450 3A4 protein (259-441AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	>95%, Protein G purified

Target Details

Target:	CYP3A4
Alternative Name:	CYP3A4 (CYP3A4 Products)
Background:	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

Target Details

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).

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

UniProt: [P08684](#)

Pathways: [Steroid Hormone Biosynthesis](#)

Application Details

Application Notes: Recommended dilution: WB:1:200-1:5000, IHC:1:20-1:200, IF:1:50-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be

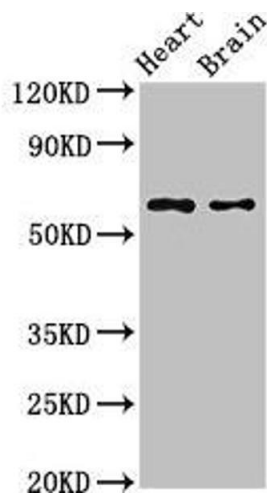
Handling

handled by trained staff only.

Storage: -20 °C,-80 °C

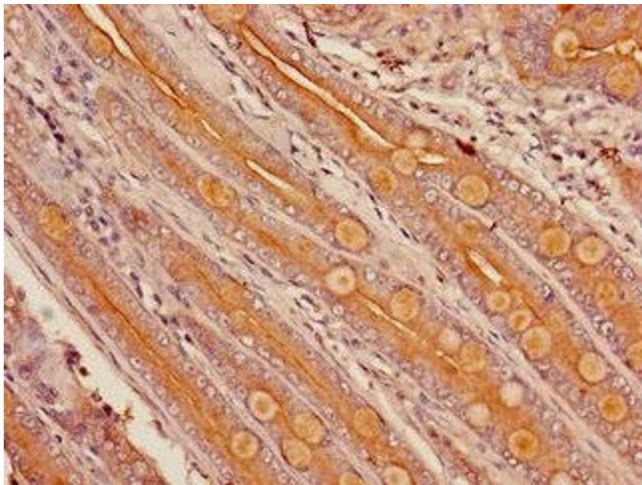
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



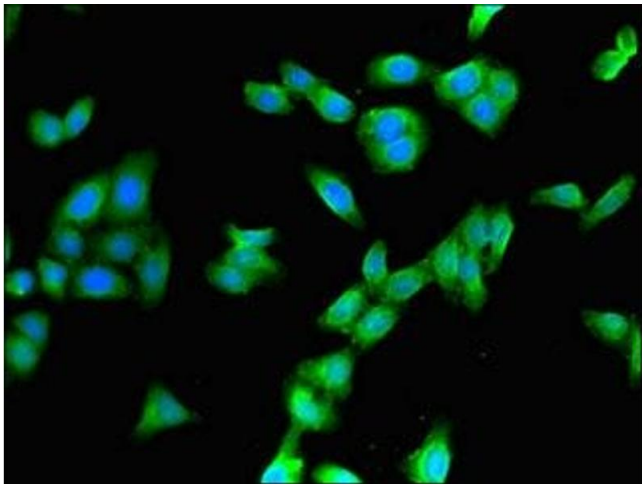
Western Blotting

Image 1. Western Blot Positive WB detected in: Mouse heart tissue, Mouse brain tissue All lanes: CYP3A4 antibody at 2.8 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 58 kDa Observed band size: 58 kDa



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human small intestine tissue using ABIN7149259 at dilution of 1:100



Immunofluorescence

Image 3. Immunofluorescent analysis of HepG2 cells using ABIN7149259 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)