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Datasheet for ABIN7143637 anti-AKR1A1 antibody (AA 2-325)

3 Images



Overview

Quantity:	100 µg
Target:	AKR1A1
Binding Specificity:	AA 2-325
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKR1A1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

Product Details

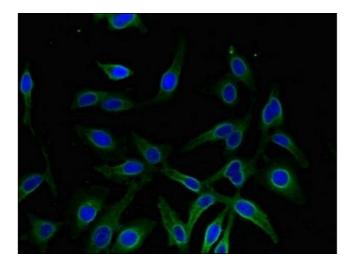
Immunogen:	Recombinant Human Alcohol dehydrogenase [NADP(+)] protein (2-325AA)
Isotype:	lgG
Cross-Reactivity:	Human, Mouse
Purification:	>95%, Protein G purified

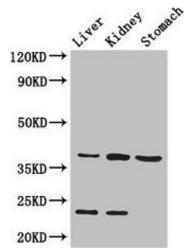
Target Details

Target:	AKR1A1
Alternative Name:	AKR1A1 (AKR1A1 Products)
Background:	Background: Catalyzes the NADPH-dependent reduction of a variety of aromatic and aliphatic
	aldehydes to their corresponding alcohols. Catalyzes the reduction of mevaldate to mevalonic

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	acid and of glyceraldehyde to glycerol. Has broad substrate specificity. In vitro substrates
	include succinic semialdehyde, 4-nitrobenzaldehyde, 1,2-naphthoquinone, methylglyoxal, and D-
	glucuronic acid. Plays a role in the activation of procarcinogens, such as polycyclic aromatic
	hydrocarbon trans-dihydrodiols, and in the metabolism of various xenobiotics and drugs,
	including the anthracyclines doxorubicin (DOX) and daunorubicin (DAUN).
	Aliases: AK1A1_HUMAN antibody, Akr1a1 antibody, Alcohol dehydrogenase [NADP+] antibody,
	Alcohol dehydrogenase antibody, Aldehyde reductase antibody, Aldo keto reductase family 1
	member A1 (aldehyde reductase) antibody, Aldo-keto reductase family 1 member A1 antibody,
	ALDR1 antibody, ALR antibody, ARM antibody, DD3 antibody, MGC12529 antibody, MGC1380
	antibody
UniProt:	P14550
Pathways:	Monocarboxylic Acid Catabolic Process
Application Details	
Application Notes:	Recommended dilution: WB:1:2000-1:10000, 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
	handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



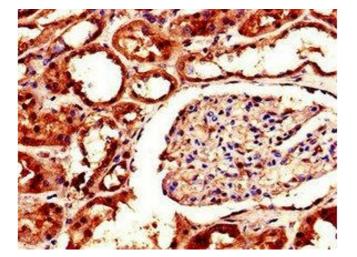


Immunofluorescence

Image 1. Immunofluorescent analysis of Hela cells using ABIN7143637 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

Western Blotting

Image 2. Western Blot Positive WB detected in: Mouse liver tissue, Mouse kidney tissue, Mouse stomach tissue All lanes: Akr1a1 antibody at 2.8 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 37 kDa Observed band size: 37, 23 kDa



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human kidney tissue using ABIN7143637 at dilution of 1:100

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