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Datasheet for ABIN950320 anti-AKR1C2 antibody (C-Term)

2 Images



Overview

Quantity:	0.4 mL
Target:	AKR1C2
Binding Specificity:	AA 295-323, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKR1C2 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 295-323 amino acids from the C-terminal region of human AKR1C2
lsotype:	Ig Fraction
Specificity:	This antibody reacts to AKR1C2.
Purification:	Affinity chromatography on Protein A

Target Details

Target:	AKR1C2
Alternative Name:	AKR1C2 / DDH2 (AKR1C2 Products)
Background:	This gene encodes a member of the aldo/keto reductase superfamily, which consists of more

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than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes
and ketones to their corresponding alcohols using NADH and/or NADPH as cofactors. The
enzymes display overlapping but distinct substrate specificity. This enzyme binds bile acid with
high affinity, and shows minimal 3-alpha-hydroxysteroid dehydrogenase activity. This gene
shares high sequence identity with three other gene members and is clustered with those three
genes at chromosome 10p15-p14.Synonyms: 2-dihydrobenzene-1, 2-diol dehydrogenase, 3-
alpha-HSD3, Aldo-keto reductase family 1 member C2, Chlordecone reductase homolog
HAKRD, Dihydrodiol dehydrogenase 2, Dihydrodiol dehydrogenase/bile acid-binding protein,
Trans-1, Type III 3-alpha-hydroxysteroid dehydrogenase

Molecular Weight:	36735 Da
Gene ID:	1646
NCBI Accession:	NP_001345
Pathways:	Steroid Hormone Biosynthesis, C21-Steroid Hormone Metabolic Process

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS containing 0.09 % (W/V) sodium azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

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Immunohistochemistry (Paraffin-embedded Sections)

Image 1. AKR1C2 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of AKR1C2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Western Blotting

Image 2. AKR1C2 Antibody (C-term) western blot analysis in HepG2 cell line lysates ($35 \mu g$ /lane).This demonstrates the AKR1C2 antibody detected the AKR1C2 protein (arrow).

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