

Datasheet for ABIN2856139

anti-AKR1C1 antibody

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Overview

Quantity:	100 µL
Target:	AKR1C1 (DDH)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKR1C1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human AKR1C1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Rabbit Polyclonal antibody to AKR1C1 (aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1, 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)) AKR1C1 antibody
Purification:	Purified by antigen-affinity chromatography.
Grade:	KO Validated

Target Details

Target:	AKR1C1 (DDH)
Alternative Name:	aldo-keto reductase family 1 member C1 (DDH Products)
Background:	<p>This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme catalyzes the reaction of progesterone to the inactive form 20-alpha-hydroxy-progesterone. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14.</p> <p>Cellular Localization: Cytoplasm</p>
Molecular Weight:	37 kDa
Gene ID:	1645
UniProt:	Q04828
Pathways:	Steroid Hormone Biosynthesis , C21-Steroid Hormone Metabolic Process

Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	<p>Positive Control: mouse liver , A549 , AKR1C1-transfected 293T</p> <p>Validation: KO/KD, Orthogonal, Overexpression</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.6 mg/mL
Buffer:	1XPBS pH 7, 20 % Glycerol, 0.025 % ProClin 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

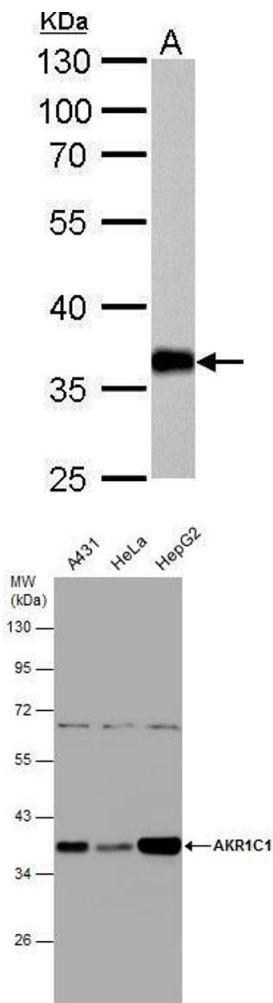
Handling

Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

Product cited in:	Miettinen, Felisiak-Golabek, Wasag, Chmara, Wang, Butzow, Lasota: "Fumarase-deficient Uterine Leiomyomas: An Immunohistochemical, Molecular Genetic, and Clinicopathologic Study of 86 Cases." in: The American journal of surgical pathology , Vol. 40, Issue 12, pp. 1661-1669, (2017) (PubMed).
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Images

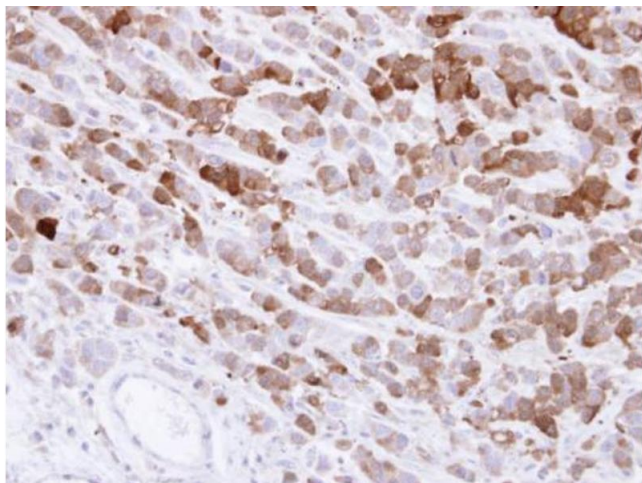


Western Blotting

Image 1. WB Image AKR1C1 antibody detects AKR1C1 protein by Western blot analysis. A. 50 µg mouse liver lysate/extract 10 % SDS-PAGE AKR1C1 antibody , dilution: 1:1000

Western Blotting

Image 2. WB Image Various whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with AKR1C1 antibody , diluted at 1:1000.



Immunohistochemistry

Image 3. IHC-P Image Immunohistochemical analysis of paraffin-embedded MDA-MB-468 xenograft , using AKR1C1, antibody at 1:500 dilution.

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN2856139.