

Datasheet for ABIN7299064  
**anti-AKR1B1 antibody (C-Term)**



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3 Images

## Overview

Quantity:	100 µL
Target:	AKR1B1
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKR1B1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunochromatography (IC)

## Product Details

Immunogen:	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Aldose Reductase.
Specificity:	Recognizes endogenous levels of Aldose Reductase protein.
Characteristics:	Rabbit polyclonal antibody to Aldose Reductase
Purification:	The antibody was purified by immunogen affinity chromatography.

## Target Details

Target:	AKR1B1
Alternative Name:	Aldose Reductase ( <a href="#">AKR1B1 Products</a> )

## Target Details

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Background:	ALDR1, Aldose reductase, AR, Aldehyde reductase, Aldo-keto reductase family 1 member B1
Gene ID:	231, 11677, 24192
UniProt:	<a href="#">P15121</a> , <a href="#">P45376</a> , <a href="#">P07943</a>
Pathways:	<a href="#">Metabolism of Steroid Hormones and Vitamin D</a> , <a href="#">C21-Steroid Hormone Metabolic Process</a> , <a href="#">Monocarboxylic Acid Catabolic Process</a>

## Application Details

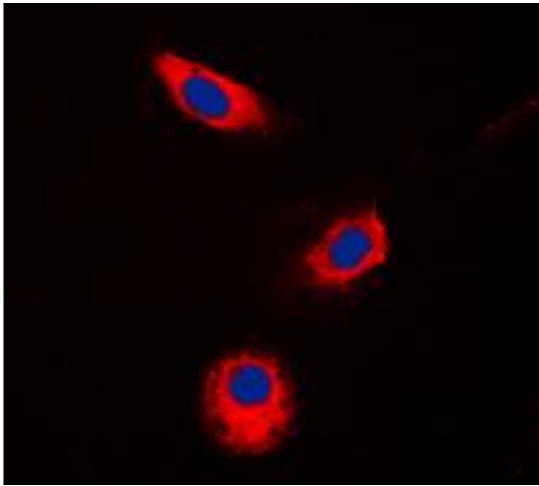
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Application Notes:	WB (1:500 - 1:1000), IH (1:100 - 1:200), IF/IC (1:100 - 1:500)
Restrictions:	For Research Use only

## Handling

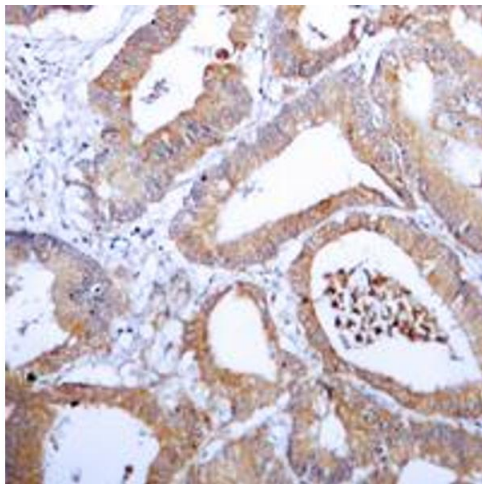
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Format:	Liquid
Buffer:	Liquid in 0.42 % Potassium phosphate, 0.87 % Sodium chloride, pH 7.3, 30 % glycerol, and 0.01 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.
Expiry Date:	12 months



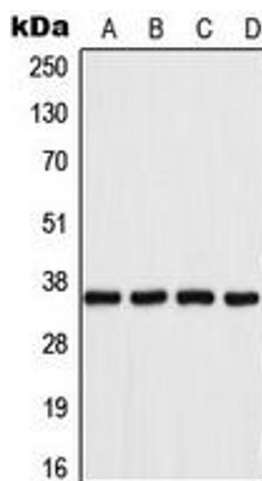
### Immunofluorescence

**Image 1.** Immunofluorescent analysis of Aldose Reductase staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



### Immunohistochemistry

**Image 2.** Immunohistochemical analysis of Aldose Reductase staining in human colon cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



### Western Blotting

**Image 3.** Western blot analysis of Aldose Reductase expression in Jurkat (A), HeLa (B), SP2/0 (C), PC12 (D) whole cell lysates.