Datasheet for ABIN389205

anti-AKR1B1 antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	AKR1B1
Binding Specificity:	AA 290-316, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKR1B1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This AKR1B1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 290-316 amino acids from the C-terminal region of human AKR1B1.
Clone:	RB14692
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	AKR1B1
Alternative Name:	AKR1B1 (AKR1B1 Products)

Target Details

Background:	AKR1B1 is a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This protein catalyzes the reduction of a number of aldehydes, including the aldehyde form of glucose, and is thereby implicated in the development of diabetic complications by catalyzing the reduction of glucose to sorbitol.
Molecular Weight:	35853
Gene ID:	231
NCBI Accession:	NP_001619
UniProt:	P15121
Pathways:	Metabolism of Steroid Hormones and Vitamin D, C21-Steroid Hormone Metabolic Process, Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

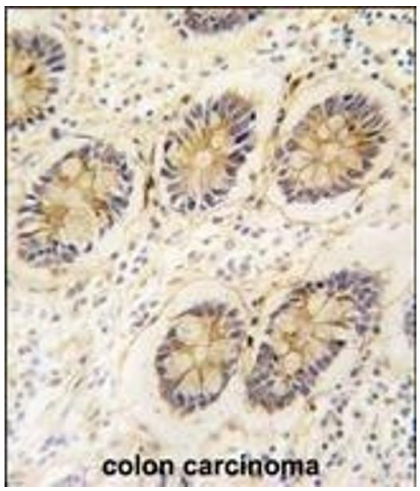
Product cited in:	Wu, Li, Fang, Yi, Chen, Long, Gao, Wei, Chen: "Investigation of synergistic mechanism and identification of interaction site of aldose reductase with the combination of gigantol and syringic acid for prevention of diabetic cataract." in: **BMC complementary and alternative**

Publications

medicine, Vol. 16, Issue 1, pp. 286, (2017) (PubMed).

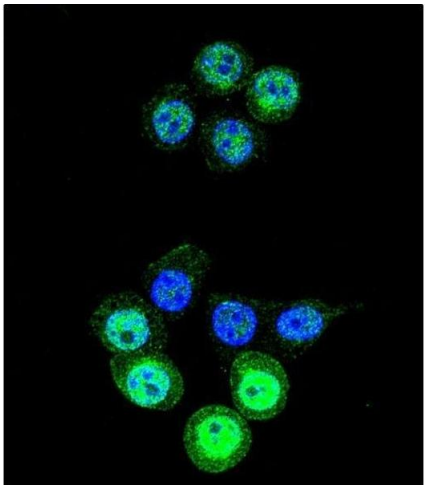
Guo, Wang, Liu, Myatt, Sun: "Induction of PGF2? synthesis by cortisol through GR dependent induction of CBR1 in human amnion fibroblasts." in: **Endocrinology**, Vol. 155, Issue 8, pp. 3017-24, (2014) (PubMed).

Images



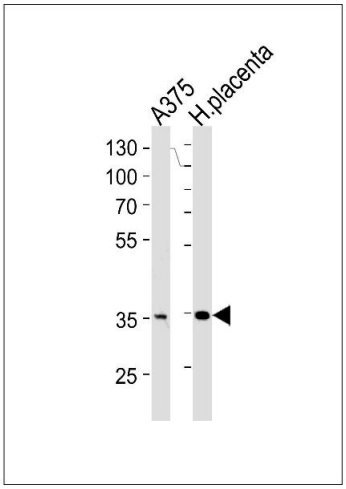
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with AKR1B1 antibody (C-term) (ABIN389205 and ABIN2839363) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Immunofluorescence

Image 2. Confocal immunofluorescent analysis of AKR1B1 Antibody (C-term) (ABIN389205 and ABIN2839363) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DI was used to stain the cell nuclear (blue).



Western Blotting

Image 3. AKR1B1 Antibody (C-term) (ABIN389205 and ABIN2839363) western blot analysis in cell line and human placenta tissue lysates (35 µg/lane).This demonstrates the AKR1B1 antibody detected the AKR1B1 protein (arrow).