

Rabbit anti-Human AKR1B1 Polyclonal Antibody | anti-AKR1B1 antibody

AKR1B1 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285098	Rabbit	Human	Western Blot, Immunofluorescence, Immunohistochemistry, ELISA

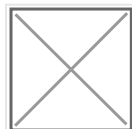
PRODUCT SYNONYMS

AKR1B1; Polyclonal Antibody; AKR1B1 Antibody (C-term); Aldose reductase; AR; Aldehyde reductase; Aldo-keto reductase family 1 member B1; ALDR1; anti-AKR1B1 antibody

PRODUCT SPECIFICATIONS

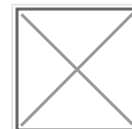
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This AKR1B1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 290-316 amino acids from the C-terminal region of human AKR1B1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	290-316
Sequence Length	316
Applicable Applications for anti-AKR1B1 antibody	WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

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



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with AKR1B1 antibody (C-term), 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.



WB (Western Blot)

AKR1B1 Antibody (C-term) western blot analysis in A375 cell line and human placenta tissue lysates (35ug/lane). This demonstrates the AKR1B1 antibody detected the AKR1B1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-AKR1B1 antibody	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.
Product Categories/Family for anti-AKR1B1 antibody	Crown Antibodies ; Metabolism ; Signal Transduction
References	Steuber,H.,J. Mol. Biol. 379 (5), 991-1016 (2008) Gleissner,C.A.,Arterioscler. Thromb. Vasc. Biol. 28 (6), 1137-1143 (2008) Grundmann,U.,DNA Cell Biol. 9 (3), 149-157 (1990)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502049
NCBI GeneID	231
NCBI Accession #	NP_001619.1
NCBI GenBank Nucleotide #	NM_001628.2
UniProt Accession #	P15121 ; Q5U031 ; Q6FGA4 ; Q6ICP2 ; Q9BS21 ; Q9UCI9 ; B2R8N3
Molecular Weight	35853
NCBI Official Full Name	aldose reductase
NCBI Official Synonym Full Names	aldo-keto reductase family 1, member B1 (aldose reductase)
NCBI Official Symbol	AKR1B1
NCBI Official Synonym Symbols	AR; ADR; ALR2; ALDR1
NCBI Protein Information	aldose reductase
UniProt Protein Name	Aldose reductase
UniProt Gene Name	AKR1B1
UniProt Synonym Gene Names	ALDR1; AR
UniProt Entry Name	ALDR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/akr1b1-antibody-western-blot-immunofluorescence-immunohistochemistry-elisa/285098>