

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

Anti-AKR1B1 Antibody, Rabbit Polyclonal

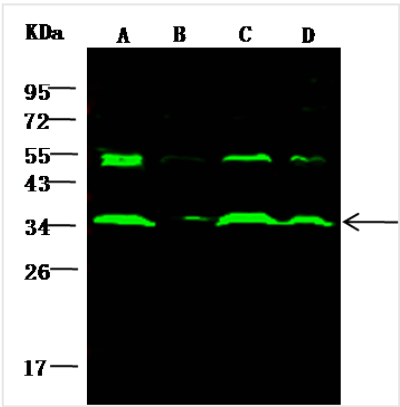
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255394	Rabbit	Human	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

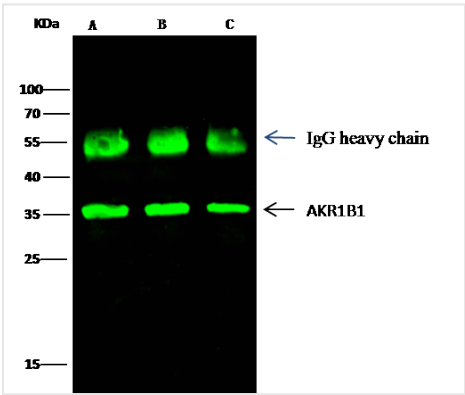
AKR1B1; Polyclonal Antibody; Anti-AKR1B1 Antibody; Rabbit Polyclonal; AKR1B1 Antibody; Rabbit PAb; Antigen Affinity Purified; aldo-keto reductase family 1; member B1 (aldose reductase); Anti-ADR Antibody; Anti-ALDR1 Antibody; Anti-ALR2 Antibody; Anti-AR Antibody; Anti-MGC1804 Antibody; anti-AKR1B1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human AKR1B1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-AKR1B1 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Human AKR1B1 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human AKR1B1 (rh AKR1B1). AKR1B1 specific IgG was purified by Human AKR1B1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)
Anti-AKR1B1 rabbit polyclonal antibody at 1:500 dilution Lane A: Hela Whole Cell Lysate Lane B: MCF-7 Whole Cell Lysate Lane C: Jurkat Whole Cell Lysate Lane D: 293T Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 36 kDa Observed band size: 34 kDa (We are unsure as to the identity of these extra bands).



IP (Immunoprecipitation)
AKR1B1 was immunoprecipitated using: Lane A: 0.5 mg Jurkat Whole Cell Lysate Lane B: 0.5 mg Hela Whole Cell Lysate Lane C: 0.5 mg A431 Whole Cell Lysate 2 uL anti-AKR1B1 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-AKR1B1 rabbit polyclonal antibody, at 1:200 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odyssey technique. Performed under reducing conditions. Predicted band size: 35 kDa Observed band size: 35 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-AKR1B1 antibody	Aldose reductase (AKR1B1) belongs to the aldo/keto reductase superfamily. AKR1B1 is a NADPH-dependent aldo-keto reductase best known as the rate-limiting enzyme of the polyol pathway. Expression of AKR1B1 was the highest in lens and retina. It is the first enzyme in the polyol pathway through which glucose is converted to sorbitol which is important for the function of various organs in the body, and has been implicated in the etiology of diabetic complications. AKR1B1 is quite abundant in the collecting tubule cells and thought to provide protection against hypertonic environment. Some human tissues contain AKR1B1 as well as AKR1B10, a closely related member of the aldo-keto reductase superfamily.
References	Huang SP, et al. (2010) Aldo-Keto Reductases in the Eye. Journal of Ophthalmology. 326 (3): 625-36. Aida K, et al. (2000) Disruption of Aldose Reductase Gene (Akr1b1) Causes Defect in Urinary Concentrating Ability and Divalent Cation Homeostasis. Biochemical and Biophysical Research Communications. 277 (2): 281-6. Liao CS, et al. (2009) Regulation of AKR1B1 by thyroid hormone and its receptors. Molecular and Cellular Endocrinology. 307 (1-2): 109-17. Baba SP, et al. (2009) Posttranslational glutathiolation of aldose reductase (AKR1B1): A possible mechanism of protein recovery from S-nitrosylation. Chemico-Biological Interactions. 178 (1-3): 250-8.

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	35,853 Da
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; aldehyde reductase 1; low Km aldose reductase; Lii5-2 CTCL tumor antigen; aldo-keto reductase family 1 member B1

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-immunoprecipitation-western-blot-elisa/255394>