

Rabbit AKR1B1 Polyclonal Antibody | anti-AKR1B1 antibody

Anti-AKR1B1 Antibody

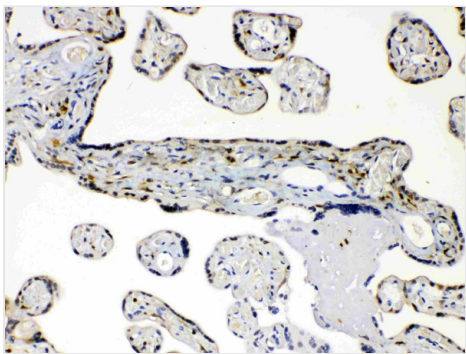
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA46820	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

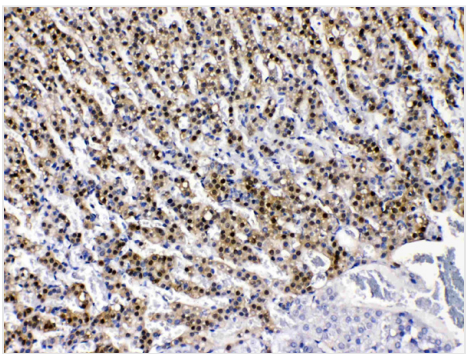
AKR1B1; Polyclonal Antibody; Anti-AKR1B1 Antibody; ADR; AKR1B 1; Akr1b1; Aldehyde reductase 1; Aldehyde reductase; Aldose reductase; aldr 1; aldr1; ALR2; AR; P15121; aldo-keto reductase family 1 member B; anti-AKR1B1 antibody

PRODUCT SPECIFICATIONS

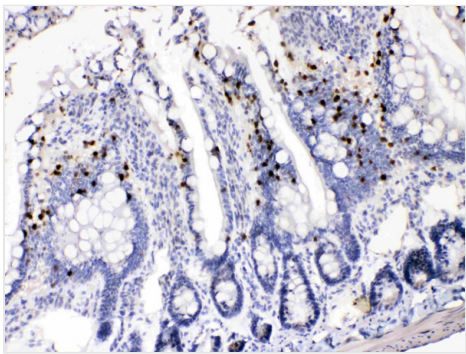
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	316
Applicable Applications for anti-AKR1B1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E. coli-derived human AKR1B1 recombinant protein (Position: L228-F316). Human AKR1B1 shares 87.5% amino acid (aa) sequence identity with both mouse and rat AKR1B1.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



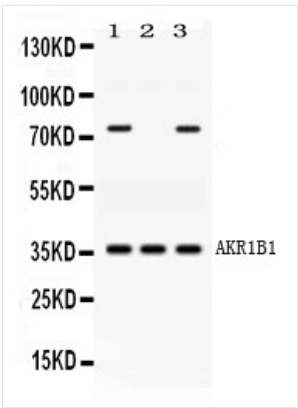
IHC (Immunohistochemistry)
AKR1B1 was detected in paraffin-embedded sections of human placenta tissues using rabbit anti- AKR1B1 Antigen Affinity purified polyclonal antibody at 1 ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohistochemistry)
AKR1B1 was detected in paraffin-embedded sections of rat adrenal gland tissues using rabbit anti- AKR1B1 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohistochemistry)
AKR1B1 was detected in paraffin-embedded sections of rat intestine tissues using rabbit anti- AKR1B1 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)
Western blot analysis of AKR1B1 expression in rat cardiac muscle extract (lane 1), human placenta extract (lane 2) and HELA whole cell lysates (lane 3). AKR1B1 at 36KD was detected using rabbit anti- AKR1B1 Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-AKR1B1 antibody	Rabbit IgG polyclonal antibody for Aldose reductase(AKR1B1) detection. Background: Aldo-keto reductase family 1, member B1 (aldose reductase), also known as AR, is an enzyme that in humans is encoded by the AKR1B1 gene. This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member 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.
References	1. Ferraretto A, Negri A, Giuliani A, et al. (1993). "Aldose reductase is involved in long-term adaptation of EUE cells to hyperosmotic stress". Biochim. Biophys. Acta 1175(3): 283-8. 2. Graham A, Heath P, Morten JE, Markham AF (March 1991). "The human aldose reductase gene maps to chromosome region 7q35". Hum. Genet. 86 (5): 509-14.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502049
NCBI GeneID	231
NCBI Accession #	NP_001619.1
NCBI GenBank Nucleotide #	NM_001628.3
UniProt Accession #	P15121; Q5U031; Q6FGA4; Q6ICP2; Q9BS21; Q9UCI9; B2R8N3

Molecular Weight	35,853 Da
NCBI Official Full Name	aldose reductase isoform 1
NCBI Official Synonym Full Names	aldo-keto reductase family 1 member B
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

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/akr1b1-antibody-immunohistochemistry-western-blot-elisa/46820>