

Rabbit Aldose Reductase Polyclonal Antibody | anti-AKR1B1 antibody

Anti-Aldose Reductase Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA259806	Rabbit	Human, Mouse, Rat, Monkey	Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Aldose Reductase; Polyclonal Antibody; Anti-Aldose Reductase Antibody; ALDR1; Aldose reductase; AR; Aldehyde reductase; Aldo-keto reductase family 1 member B1; anti-AKR1B1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Polyclonal
Specificity	Recognizes endogenous levels of Aldose Reductase protein.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Sequence Length	316
Applicable Applications for anti-AKR1B1 antibody	ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Aldose Reductase. The exact sequence is proprietary.
Preparation and Storage	Upon receipt aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.

IMAGES



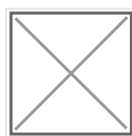
IF (Immunofluorescence)

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).



IHC (Immunohistochemistry)

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.



WB (Western Blot)

Western blot analysis of Aldose Reductase expression in HEK293T (A), HeLa (B), mouse testis (C), rat testis (D) whole cell lysates.

ADDITIONAL INFORMATION

Related Product Information for anti-AKR1B1 antibody	Rabbit polyclonal antibody to Aldose Reductase
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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
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.