

DNAPAb

Hard-to-Find
Antibody

AKR1B1 DNAPAb

Catalog # H00000231-W01P Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human AKR1B1 DNA using DNAP™ Immune technology.
Technology	DNAP™ Immune
Immunogen	Full-length human DNA
Sequence	MASRLLLNNGAKMPILGLGTWKSPPGQVTEAVKVAIDVGYRHIDCAHVYQNEVEVGVAIQEKLRE QVVKREELFMVSKLWCTYHEKGLVKGACQKTLSDLKLDYLDLYLIHWPTGFKPGKEFFPLDESGN VVPSTDNILDWTAAMEELVDEGLVKAIGISNFNHLQVEMILNKPGLKYKPAVNQIECHPYLTQEKLQ YCQSKGMVVTAYSPLGSPDRPWAKPEDPSLLEDPRIKAAAHNKTTAQVLIRFPMQRNLVVIPKSV TPERIAENFKVDFELSSQDMTLLSYNRNWRVCALLSCTSHKDYPFHEEF
Host	Rabbit
Reactivity	Human
Interspecies Antigen Sequence	Mouse (86); Rat (86)
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

Gene Info — AKR1B1

Entrez GeneID [231](#)

GeneBank Accession# [NM_001628.2](#)

Protein Accession# [NP_001619.1](#)

Gene Name AKR1B1

Gene Alias ADR, ALDR1, ALR2, AR, MGC1804

Gene Description aldo-keto reductase family 1, member B1 (aldose reductase)

Omim ID [103880](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. Multiple pseudogenes have been identified for this gene. The nomenclature system used by the HUGO Gene Nomenclature Committee to define human aldo-keto reductase family members is known to differ from that used by the Mouse Genome Informatics database. [provided by RefSeq]

Other Designations Lii5-2 CTCL tumor antigen|aldehyde reductase 1|aldo-keto reductase family 1, member B1|aldose reductase|low Km aldose reductase

Pathway

- [Fructose and mannose metabolism](#)
- [Galactose metabolism](#)
- [Glycerolipid metabolism](#)
- [Metabolic pathways](#)
- [Pentose and glucuronate interconversions](#)
- [Pyruvate metabolism](#)

Disease

- [Albuminuria](#)
- [Cardiovascular Diseases](#)
- [Coronary Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Diabetic Nephropathies](#)
- [Diabetic Neuropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Hypospadias](#)
- [Kidney Failure](#)
- [Renal Insufficiency](#)