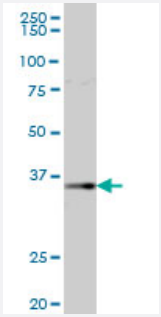
MaxPab®

AKR1B1 purified MaxPab mouse polyclonal antibody (B01P)

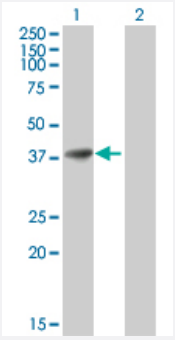
Catalog # H00000231-B01P Size 50 ug

Applications



Western Blot (Tissue lysate)

AKR1B1 MaxPab polyclonal antibody. Western Blot analysis of AKR1B1 expression in human kidney.



Western Blot (Transfected lysate)

Western Blot analysis of AKR1B1 expression in transfected 293T cell line (H00000231-T01) by AKR1B1 MaxPab polyclonal antibody.

Lane 1: AKR1B1 transfected lysate(34.76 KDa).
Lane 2: Non-transfected lysate.

Specification

Product Description	Mouse polyclonal antibody raised against a full-length human AKR1B1 protein.
Immunogen	AKR1B1 (AAH00260, 1 a.a. ~ 316 a.a) full-length human protein.
Sequence	MASRLLLNNGAKMPILGLGTWKSPPGQVTEAVKVAIDVGYRHIDCAHVYQNENEVGVAIQEKLRE QVVKREELFIVSKLWCTYHEKGLVKGACQKTLSDLKLDYLDLYLIHWPTGFKPGKEFFPLDESGN VVPSDTNILDTWAAMEELVDEGLVKAIGISNFNHLQVEMILNKPGLKYKPAVNQIECHPYLTQEKLIQ YCQSKGIVVTAYSPLGSPDRPWAKPEDPSLLEDPRIKAIAAKHNKTTAQVLIRFPMQRNLVVIPKSV TPERIAENFKVFDFELSSQDMTTLLSYNRNWRVCALLSCTSHKDYPFHEEF
Host	Mouse

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Reactivity	Human
Interspecies Antigen Sequence	Mouse (86); Rat (86)
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 (Tissue lysate)

  AKR1B1 MaxPab polyclonal antibody. Western Blot analysis of AKR1B1 expression in human kidney.

  Protocol Download

- Western Blot (Transfected lysate)

  Western Blot analysis of AKR1B1 expression in transfected 293T cell line (H00000231-T01) by AKR1B1 MaxPab polyclonal antibody.

  Lane 1: AKR1B1 transfected lysate(34.76 KDa).
  Lane 2: Non-transfected lysate.

  Protocol Download

Gene Info — AKR1B1

Entrez GeneID	231
GeneBank Accession#	BC000260
Protein Accession#	AAH00260
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

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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

Publication Reference

- Elevated extracellular glucose and uncontrolled type 1 diabetes enhance NFAT5 signaling and disrupt the transverse tubular network in mouse skeletal muscle.

  Hernández-Ochoa EO, Robison P, Contreras M, Shen T, Zhao Z, Schneider MF.

  Experimental Biology and Medicine (Maywood, N.J.) 2012 Sep; 237(9):1068.

  Application: WB-Ti, Mouse, Flexor digitorum brevis skeletal muscle fibers

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

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- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Neuropathies
- Diabetic Retinopathy
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Glomerulonephritis
- Hypospadias
- Kidney Failure
- Renal Insufficiency

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