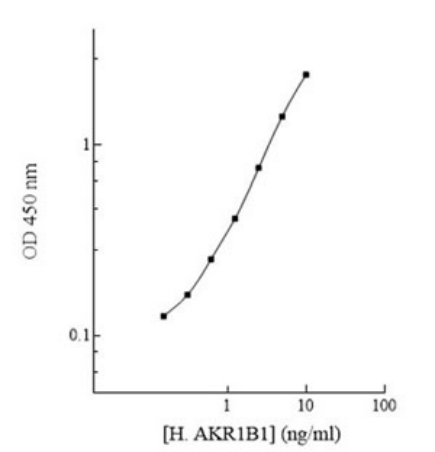
AKR1B1 (Human) ELISA Kit

Catalog # KA6015 Size 1 Kit

Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	AKR1B1 (Human) ELISA Kit is a competitive enzyme-linked immunosorbent assay for quantitative measurement of human AKR1B1 in plasma, serum, cell culture, and cell lysate.
Suitable Sample	plasma, serum, cell culture, and cell lysate
Sample Volume	50 uL
Label	Peroxidase-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	0.156 to 10 ng/mL
Reactivity	Human
Regulatory Status	For research use only (RUO)
Quality Control Testing	Standard curve The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Storage Instruction	Store components of the kit at 4°C or -20°C as described in the protocol.

Applications

- Quantification

Gene Info — AKR1B1

Entrez GeneID	231
Protein Accession#	P15121
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