

Human Aldose Reductase (AR) ELISA Kit | AR elisa kit

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CATALOG #
AAA330848

REACTIVITY
Human

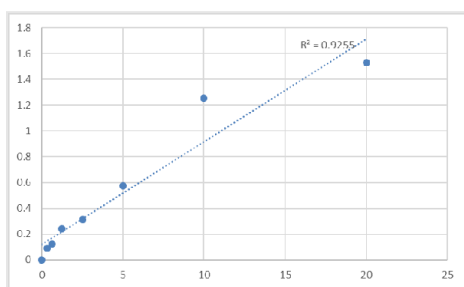
PRODUCT SYNONYMS

Aldose Reductase (AR); Human Aldose Reductase (AR) ELISA Kit; AKR1B1; ADR; ALDR1; ALR2; AR; MGC1804; Lii5-2 CTCL tumor antigen; aldehyde reductase 1; aldo-keto reductase family 1; member B1; aldose reductase; low Km aldose reductase; AR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Aldose Reductase (AR) ELISA Kit has high sensitivity and excellent specificity for detection of Human AKR1B1. No significant cross-reactivity or interference between Human AKR1B1 and analogues was observed.
Sequence Length	316
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Aldose Reductase (AR) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for AR elisa kit	Description: This Human Aldose Reductase (AR) ELISA Kit employs a two-site sandwich ELISA to quantitate AKR1B1 in samples. An antibody specific for AKR1B1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any AKR1B1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for AKR1B1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of AKR1B1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The androgen receptor (AR) is more than 90 kb long and codes for a protein that has 3 major functional domains: the N-terminal domain, DNA-binding domain, and androgen-binding domain. The protein functions as a steroid-hormone activated transcription factor. Upon binding the hormone ligand, the receptor dissociates from accessory proteins, translocates into the nucleus, dimerizes, and then stimulates transcription of androgen responsive genes. This gene contains 2 polymorphic trinucleotide repeat segments that encode polyglutamine and polyglycine tracts in the N-terminal transactivation domain of its protein. Expansion of the polyglutamine tract causes spinal bulbar muscular atrophy (Kennedy disease). Mutations in this gene are also associated with complete androgen insensitivity (CAIS).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502049
NCBI GeneID	231
NCBI Accession #	NP_001619.1
NCBI GenBank Nucleotide #	NP_001619.1
UniProt Accession #	P15121
NCBI Official Full Name	aldo-keto reductase family 1 member B1 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	aldo-keto reductase family 1 member B1; 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.