

Human Aldo keto reductase family 1 member C3 (AKR1C3) ELISA Kit | AKR1C3 elisa kit

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CATALOG #
AAA27175

REACTIVITY
Human

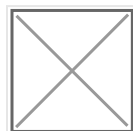
PRODUCT SYNONYMS

Aldo keto reductase family 1 member C3 (AKR1C3); Human Aldo keto reductase family 1 member C3 (AKR1C3) ELISA Kit; AKR1C3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of AKR1C3. No significant cross-reactivity or interference between AKR1C3 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between AKR1C3 and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	1.0 pg/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for AKR1C3 elisa kit

Intended Uses: This AKR1C3 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human AKR1C3. This ELISA kit for research use only, not for therapeutic or test applications!

Principle of the Assay: AKR1C3 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-AKR1C3 antibody and an AKR1C3-HRP conjugate. The assay sample and buffer are incubated together with AKR1C3-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the AKR1C3 concentration since AKR1C3 from samples and AKR1C3-HRP conjugate compete for the anti-AKR1C3 antibody binding site. Since the number of sites is limited, as more sites are occupied by AKR1C3 from the sample, fewer sites are left to bind AKR1C3-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The AKR1C3 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #

[24497583](#)

NCBI GeneID	8644
NCBI Accession #	NP_003730.4
NCBI GenBank Nucleotide #	NM_003739.5
Molecular Weight	23,364 Da
NCBI Official Full Name	aldo-keto reductase family 1 member C3 isoform 1
NCBI Official Synonym Full Names	aldo-keto reductase family 1, member C3
NCBI Official Symbol	AKR1C3
NCBI Official Synonym Symbols	DD3; DDX; PGFS; HAKRB; HAKRe; HA1753; HSD17B5; hluPGFS
NCBI Protein Information	aldo-keto reductase family 1 member C3; indanol dehydrogenase; prostaglandin F synthase; 3-alpha-HSD type II, brain; dihydrodiol dehydrogenase 3; dihydrodiol dehydrogenase X; chlordecone reductase homolog HAKRb; testosterone 17-beta-dehydrogenase 5; 3-alpha hydroxysteroid dehydrogenase, type II; type IIb 3-alpha hydroxysteroid dehydrogenase; trans-1,2-dihydrobenzene-1,2-diol dehydrogenase; aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)
UniProt Protein Name	Aldo-keto reductase family 1 member C3
UniProt Gene Name	AKR1C3
UniProt Synonym Gene Names	DDH1; HSD17B5; KIAA0119; PGFS; 17-beta-HSD 5; 3-alpha-HSD type 2; DD-3; DD3; PGFS
UniProt Entry Name	AK1C3_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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/aldo-keto-reductase-family-1-member-c3-akr1c3/27175>