



Rat Androgen receptor(AR) ELISA kit

Product Code	CSB-EL001975RA
Abbreviation	AR
Protein Biological Process 1	Transcription/Transcription regulation
Target Name	androgen receptor
Uniprot No.	P15207
Alias	RP11-383C12.1, AIS, DHTR, HUMARA, HYSP1, KD, NR3C4, SBMA, SMAX1, TFM, dihydrotestosterone receptor
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Transcription
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	23.5 pg/mL-1500 pg/mL
Sensitivity	5.8 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cancer
Gene Names	Ar
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat androgen receptor (AR) ELISA Kit was designed for the quantitative measurement of Rat androgen receptor (AR) protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 23.5 pg/mL-1500 pg/mL and the sensitivity is 5.8 pg/mL.

Target Details

The androgen receptor gene 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). Two alternatively spliced variants encoding distinct isoforms have been described.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of rat AR in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	106
	Range %	98-111
1:2	Average %	102
	Range %	95-107
1:4	Average %	97
	Range %	88-102
1:8	Average %	104
	Range %	98-109

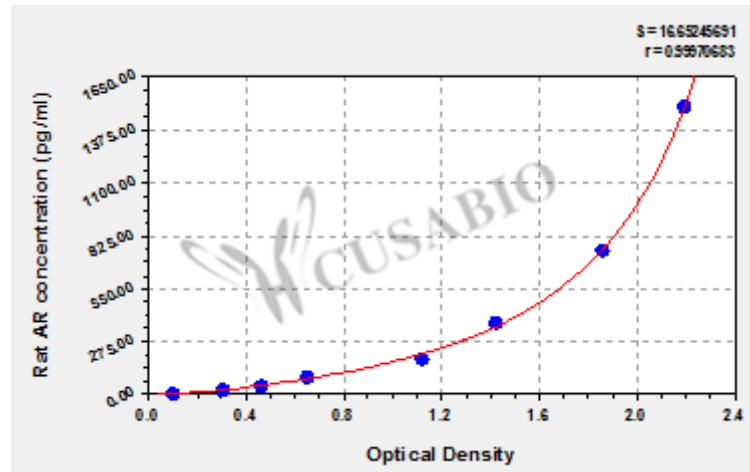
Recovery

The recovery of rat AR spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	103	94-109
EDTA plasma (n=4)	97	87-101

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
1500	2.198	2.105	2.152	2.042
750	1.844	1.803	1.824	1.714
375	1.426	1.376	1.401	1.291
187.5	1.120	1.087	1.104	0.994
94	0.650	0.641	0.646	0.536
47	0.470	0.456	0.463	0.353
23.5	0.315	0.307	0.311	0.201
0	0.108	0.112	0.110	?

Msds

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