

Rat Constitutive Androstane Receptor ELISA Kit | CAR elisa kit

Rat Constitutive Androstane Receptor (CAR) ELISA Kit

CATALOG #
AAA144563

REACTIVITY
Rat

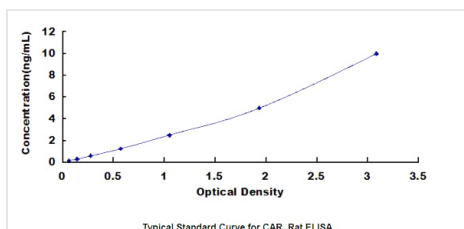
PRODUCT SYNONYMS

Constitutive Androstane Receptor; Rat Constitutive Androstane Receptor (CAR) ELISA Kit; NR1I3; NR1-I3; CAR1; MB67; Nuclear Receptor Subfamily 1; Group I; Member 3; Constitutive active response; Constitutive activator of retinoid response; Orphan nuclear receptor MB67; CAR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Constitutive Androstane Receptor (CAR). No significant cross-reactivity or interference between Constitutive Androstane Receptor (CAR) and analogues was observed.
Sequence Length	309
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.060ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Constitutive Androstane Receptor (CAR) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Constitutive Androstane Receptor (CAR) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CAR elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Constitutive Androstane Receptor (CAR). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Constitutive Androstane Receptor (CAR). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Constitutive Androstane Receptor (CAR), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Constitutive Androstane Receptor (CAR) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for CAR elisa kit	Signal transduction; Metabolic pathway; Endocrinology

NCBI AND UNIPROT INFORMATION

NCBI GI #	216409712
NCBI GeneID	9970
Molecular Weight	30,262 Da
NCBI Official Full Name	constitutive androstane receptor
NCBI Official Synonym Full Names	nuclear receptor subfamily 1 group I member 3
NCBI Official Symbol	NR1I3
NCBI Official Synonym Symbols	CAR; CAR1; MB67
NCBI Protein Information	nuclear receptor subfamily 1 group I member 3
UniProt Protein Name	Nuclear receptor subfamily 1 group I member 3
UniProt Gene Name	NR1I3
UniProt Synonym Gene Names	CAR; Constitutive active response; CAR
UniProt Entry Name	NR1I3_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.