

Mouse Adrenergic Receptor Beta 3 (ADRB3) ELISA Kit | ADRb3 elisa kit

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CATALOG #
AAA138319

REACTIVITY
Mouse

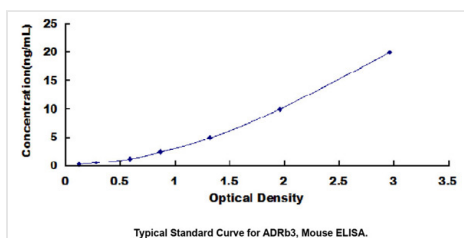
PRODUCT SYNONYMS

Adrenergic Receptor Beta 3 (ADRB3); Mouse Adrenergic Receptor Beta 3 (ADRB3) ELISA Kit; BETA3AR; B3AR; Beta-3 adrenoreceptor; ADRb3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of ADRb3. No significant cross-reactivity or interference between ADRb3 and analogues was observed.
Sequence Length	408
Assay Type	Quantitative Sandwich
Samples	Mouse tissue homogenates, cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.054ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ADRb3 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ADRb3 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. 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 ADRb3 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to ADRb3. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to ADRb3. 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 ADRb3, 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 ADRb3 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of ADRb3 in mouse tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for ADRb3 elisa kit	Endocrinology
References	Dipeptidyl Peptidase-4 Regulates Hematopoietic Stem Cell Activation in Response to Chronic Stress; J Am Heart Assoc; 2017 Jul 14;6(7):e006394.; PMID: 28710180 ; Enbo Zhu; Department of Cardiology and ICU, Yanbian University Hospital, Yanji, China.

NCBI AND UNIPROT INFORMATION

NCBI GI #	40037473
NCBI GeneID	155
UniProt Accession #	P13945; Q4JFT4
Molecular Weight	43,519 Da
NCBI Official Full Name	adrenergic receptor beta 3
NCBI Official Synonym Full Names	adrenoceptor beta 3
NCBI Official Symbol	ADRB3
NCBI Official Synonym Symbols	BETA3AR
NCBI Protein Information	beta-3 adrenergic receptor
UniProt Protein Name	Beta-3 adrenergic receptor
UniProt Gene Name	ADRB3
UniProt Synonym Gene Names	ADRB3R; B3AR; Beta-3 adrenoceptor
UniProt Entry Name	ADRB3_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.