

Mouse Diazepam Binding Inhibitor (DBI) ELISA Kit | DBI elisa kit

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CATALOG #
AAA20802

REACTIVITY
Mouse

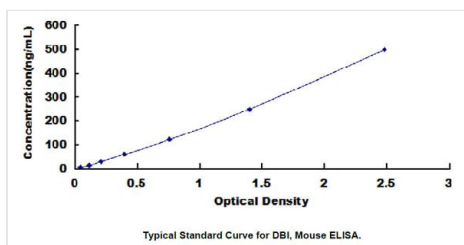
PRODUCT SYNONYMS

Diazepam Binding Inhibitor (DBI); Mouse Diazepam Binding Inhibitor (DBI) ELISA Kit; ACBP; ACBD1; CCK-RP; EP; Endozepine; GABA Receptor Modulator; Acyl-Coenzyme A Binding Protein; DBI elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of DBI. No significant cross-reactivity or interference between DBI and analogues was observed.
Sequence Length	104
Assay Type	Quantitative Sandwich
Samples	Mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	7.8-500ng/mL
Sensitivity	< 3.1ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DBI 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 DBI 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 DBI elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to DBI. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to DBI. 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 DBI, 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 $\pm$ 10nm. The concentration of DBI 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 DBI in mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for DBI elisa kit	Metabolic pathway
References	Effects of acyl-coenzyme A binding protein (ACBP)/diazepam-binding inhibitor (DBI) on body mass index; Cell Death Dis; 2021 Jun 9;12(6):599.; PMID: 34108446; A Joseph; Centre de Recherche des Cordeliers, Equipe labellisée par la Ligue contre le cancer, Inserm U1138, Université de Paris, Sorbonne Université, Paris, France.

NCBI AND UNIPROT INFORMATION

NCBI GI #	181478
NCBI GeneID	1622
Molecular Weight	13,911 Da
NCBI Official Full Name	diazepam binding inhibitor
NCBI Official Synonym Full Names	diazepam binding inhibitor (GABA receptor modulator, acyl-CoA binding protein)
NCBI Official Symbol	DBI
NCBI Official Synonym Symbols	EP; ACBP; ACBD1; CCK-RP
NCBI Protein Information	acyl-CoA-binding protein
UniProt Protein Name	Acyl-CoA-binding protein
UniProt Gene Name	DBI
UniProt Synonym Gene Names	ACBP; DBI; EP
UniProt Entry Name	ACBP_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/mouse-elisa-kits/diazepam-binding-inhibitor-dbi/20802>