



Rabbit Anti-Diazepam Binding Inhibitor antibody

SL11658R

Product Name:	Diazepam Binding Inhibitor
Chinese Name:	乙酰辅酶A Binding protein 抗体
Alias:	ACBD; ACBD 1; ACBD1; ACBP; ACBP_HUMAN; Acyl CoA binding domain containing 1; Acyl CoA binding protein; Acyl Coenzyme A binding domain containing 1; acyl coenzyme A binding protein; Acyl-CoA-binding protein; acyl-Coenzyme A binding domain containing 1; CCK RP; CCKRP; Cholecystinin releasing peptide trypsin sensitive; DBI; Diazepam-binding inhibitor; endozepine; EP; GABA receptor modulator acyl Coenzyme A binding protein; GABA receptor modulator.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Pig, Cow, Sheep,
Applications:	ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	10kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ACBD/Diazepam Binding Inhibitor:61-87/87
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes diazepam binding inhibitor, a protein that is regulated by hormones

and is involved in lipid metabolism and the displacement of beta-carbolines and benzodiazepines, which modulate signal transduction at type A gamma-aminobutyric acid receptors located in brain synapses. The protein is conserved from yeast to mammals, with the most highly conserved domain consisting of seven contiguous residues that constitute the hydrophobic binding site for medium- and long-chain acyl-Coenzyme A esters. Diazepam binding inhibitor is also known to mediate the feedback regulation of pancreatic secretion and the postprandial release of cholecystokinin, in addition to its role as a mediator in corticotropin-dependent adrenal steroidogenesis. Three pseudogenes located on chromosomes 6, 8 and 16 have been identified. Multiple transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

Function:

Binds medium- and long-chain acyl-CoA esters with very high affinity and may function as an intracellular carrier of acyl-CoA esters. It is also able to displace diazepam from the benzodiazepine (BZD) recognition site located on the GABA type A receptor. It is therefore possible that this protein also acts as a neuropeptide to modulate the action of the GABA receptor.

Subunit:

Monomer.

Subcellular Location:

Endoplasmic reticulum. Golgi apparatus. Note=Golgi localization is dependent on ligand binding.

Tissue Specificity:

Isoform 1 is ubiquitous, with a moderate expression level. Isoform 2 is ubiquitous with high level in liver and adipose tissue. Isoform 3 is ubiquitous with strong expression in adipose tissue and heart.

Similarity:

Belongs to the ACBP family.
Contains 1 ACB (acyl-CoA-binding) domain.

SWISS:

P07108

Gene ID:

1622

Database links:

[Entrez Gene: 1622](#) Human

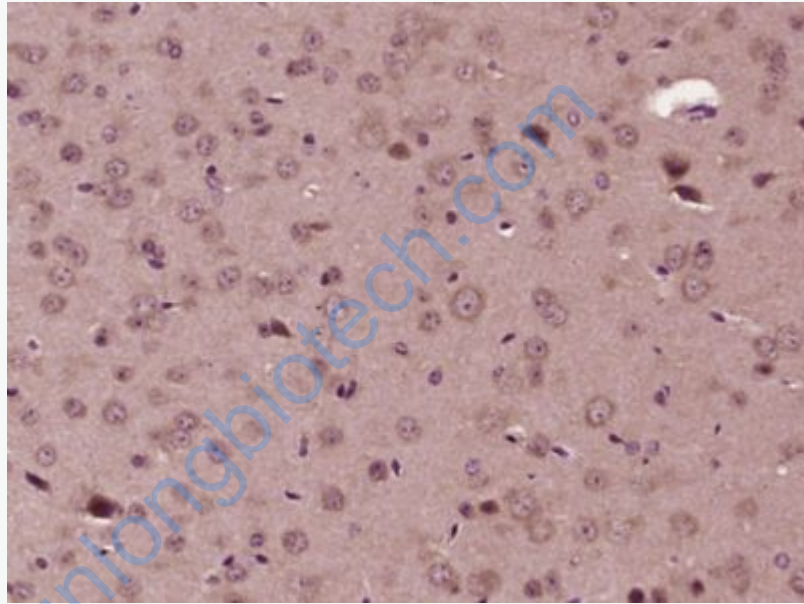
[Omim: 125950](#) Human

[SwissProt: P07108](#) Human

[Unigene: 78888](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Diazepam Binding Inhibitor) Polyclonal Antibody, Unconjugated (SL11658R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.