

Rabbit anti-Human DBI Polyclonal Antibody | anti-DBI antibody

Anti-DBI Antibody

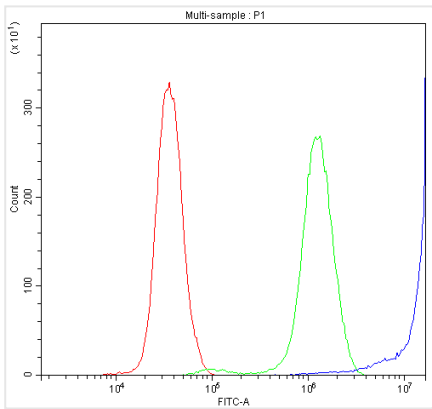
CATALOG # AAA46729	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

DBI; Polyclonal Antibody; Anti-DBI Antibody; ACBD 1; ACBD1; ACBP; CCK RP; CCKRP; Endozepine; EP; P07108; Acyl-CoA-binding protein; diazepam binding inhibitor; acyl-CoA binding protein; anti-DBI antibody

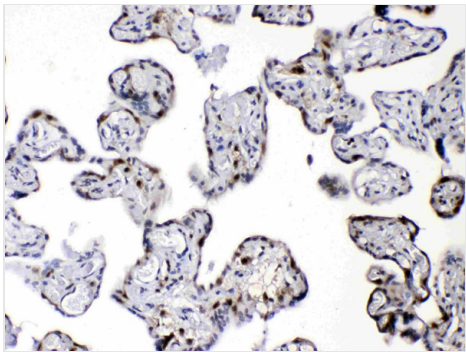
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	87
Applicable Applications for anti-DBI antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E. coli-derived human DBI recombinant protein (Position: S2-I87). Human DBI shares 77.9% amino acid (aa) sequence identity with both mouse and rat DBI.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



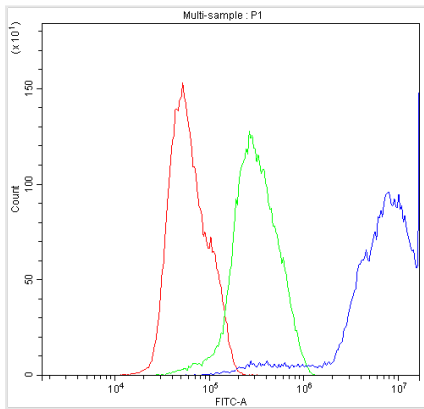
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of PC-3 cells using anti-DBI antibody (AAA46729).Overlay histogram showing PC-3 cells stained with AAA46729 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DBI Antibody (AAA46729,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight @488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



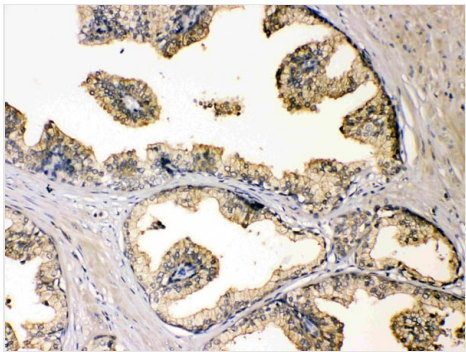
IHC (Immunohistochemistry)

Figure 3. IHC analysis of DBI using anti-DBI antibody (AAA46729).DBI was detected in paraffin-embedded section of human placenta tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-DBI Antibody (AAA46729) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



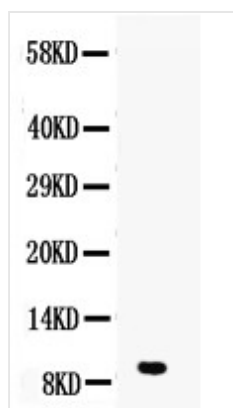
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of MCF-7 cells using anti-DBI antibody (AAA46729).Overlay histogram showing MCF-7 cells stained with AAA46729 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DBI Antibody (AAA46729,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight @488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of DBI using anti-DBI antibody (AAA46729).DBI was detected in paraffin-embedded section of human prostatic cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-DBI Antibody (AAA46729) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of DBI using anti-DBI antibody (AAA46729). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. lane 1: human placenta tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-DBI antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for DBI at approximately 10KD. The expected band size for DBI is at 10KD.

ADDITIONAL INFORMATION

Related Product Information for anti-DBI antibody	Rabbit IgG polyclonal antibody for Acyl-CoA-binding protein(DBI) detection. Background: Acyl-CoA-binding protein is a protein that in humans is encoded by the DBI gene. 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.
References	1. "Entrez Gene: DBI diazepam binding inhibitor (GABA receptor modulator, acyl-Coenzyme A binding protein)". 2. Mandrup S, Hummel R, Ravn S, et al. (1993). "Acyl-CoA-binding protein/diazepam-binding inhibitor gene and pseudogenes. A typical housekeeping gene family". J. Mol. Biol. 228 (3): 1011-22. 3. Todd S, Naylor SL (Dec 1992). "New chromosomal mapping assignments for argininosuccinate synthetase pseudogene 1, interferon-beta 3 gene, and the diazepam binding inhibitor gene". Somat Cell Mol Genet. 18(4): 381-5.

NCBI AND UNIPROT INFORMATION

NCBI GI #	120433590
NCBI GeneID	1622
NCBI Accession #	NP_001073331.1
NCBI GenBank Nucleotide #	NM_001079862.2
UniProt Accession #	P07108 ; P08869 ; Q4VWZ6 ; Q53SQ7 ; Q6IB48 ; Q9UCI8 ; B8ZWD2 ; B8ZWD6 ; B8ZWD7
Molecular Weight	13,911 Da
NCBI Official Full Name	acyl-CoA-binding protein isoform 3

NCBI Official Synonym Full Names	diazepam binding inhibitor, 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

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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/dbi-antibody-immunohistochemistry-western-blot-elisa/46729>