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# Mouse Anti-ERAB/HSD17B10 antibody

SL0021M

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| **Product Name:** | ERAB/HSD17B10 |
| **Chinese Name:** | 内质网Aβ相关Binding protein抗体 |
| **Alias:** | HSD17B10; Mitochondrial L3 Hydroxyacyl CoA Dehydrogenase; 17 beta hydroxysteroid dehydrogenase 10; 17 beta hydroxysteroid dehydrogenase type 10; 17b HSD10; 3 hydroxy 2 methylbutyryl CoA dehydrogenase; 3 hydroxyacyl CoA dehydrogenase type 2; 3 hydroxyacyl CoA dehydrogenase type II; AB binding alcohol dehydrogenase; ABAD; Ads9; Amyloid beta binding polypeptide; Amyloid beta peptide binding alcohol dehydrogenase; Amyloid beta peptide binding protein; CAMR; DUPXp11.22; Endoplasmic Reticulum Amyloid Binding Protein; Endoplasmic reticulum associated amyloid beta peptide binding protein; ER associated amyloid beta-binding protein; ERAB; HADH 2; HADH2; HCD 2; HCD2; HSD17B10; Hydroxyacyl CoA Dehydrogenase type II; Hydroxyacyl Coenzyme A dehydrogenase type II; Hydroxysteroid (17 beta) dehydrogenase 10; Mental retardation X linked syndromic 11; MHBD; Mitochondrial L3 Hydroxyacyl CoA Dehydrogenase; Mitochondrial ribonuclease P protein 2; Mitochondrial RNase P protein 2; MRPP2; MRX17; SCHAD; SDR5C1; Short chain dehydrogenase/reductase family 5C member 1; Short chain L 3 hydroxyacyl CoA dehydrogenase type 2; Short chain type dehydrogenase/reductase XH98G2; Type 10 17b HSD; Type 10 17beta hydroxysteroid dehydrogenase; Type II HADH; XH98G2. |
| **Organism Species:** | Mouse |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,Guinea Pig, |
| **Applications:** | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 21kDa |
| **Cellular localization:** | cytoplasmicMitochondrion |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |

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| **immunogen:** | KLH conjugated synthetic peptide derived from human ERAB:51-130/196 |
| **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 3-hydroxyacyl-CoA dehydrogenase type II, a member of the short-chain dehydrogenase/reductase superfamily. The gene product is a mitochondrial protein that catalyzes the oxidation of a wide variety of fatty acids, alcohols, and steroids. The protein has been implicated in the development of Alzheimer's disease, and mutations in the gene are the cause of 2-methyl-3-hydroxybutyryl-CoA dehydrogenase deficiency (MHBD). Several alternatively spliced transcript variants have been identified, but the full-length nature of only two transcript variants has been determined. [provided by RefSeq, Jul 2008].<br><br>**Function:**<br>Functions in mitochondrial tRNA maturation. Part of mitochondrial ribonuclease P, an enzyme composed of MRPP1/RG9MTD1, MRPP2/HSD17B10 and MRPP3/KIAA0391, which cleaves tRNA molecules in their 5'-ends. By interacting with intracellular amyloid-beta, it may contribute to the neuronal dysfunction associated with Alzheimer disease (AD).<br><br>**Subcellular Location:**<br>Mitochondrion<br><br>**Tissue Specificity:**<br>Expressed in normal tissues but is overexpressed in neurons affected in AD.<br><br>**DISEASE:**<br>2-methyl-3-hydroxybutyryl-CoA dehydrogenase deficiency (MHBD deficiency) [MIM:300438]: A disorder that leads to neurological abnormalities, including psychomotor retardation and, in virtually all patients, loss of mental and motor skills. Note=The disease is caused by mutations affecting the gene represented in this entry.<br>Mental retardation, X-linked, syndromic, 10 (MRXS10) [MIM:300220]: A disorder characterized by significantly below average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. MRXS10 patients manifest mild mental retardation, choreoathetosis and abnormal behavior. Note=The disease is caused by mutations affecting the gene represented in this entry.<br>Mental retardation, X-linked 17 (MRX17) [MIM:300705]: A disorder characterized by significantly below average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. Intellectual deficiency is the only primary symptom of non-syndromic X-linked mental retardation, |

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while syndromic mental retardation presents with associated physical, neurological and/or psychiatric manifestations. Note=The gene represented in this entry is involved in disease pathogenesis. A chromosomal microduplication involving HSD17B10 and HUWE1 has been found in patients with mental retardation.

**Similarity:**
Belongs to the short-chain dehydrogenases/reductases (SDR) family.

**SWISS:**
Q99714

**Gene ID:**
3028

**Database links:**

Entrez Gene: 3028 Human

Entrez Gene: 15108 Mouse

Entrez Gene: 63864 Rat

Omim: 300256 Human

SwissProt: Q99714 Human

SwissProt: O08756 Mouse

SwissProt: O70351 Rat

Unigene: 171280 Human

Unigene: 6994 Mouse

Unigene: 2700 Rat

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

ERAB（Endoplasmic reticulum amyloid beta-peptide binding protein）内质网Aβ相关Binding protein是一个细胞内与Aβ结合的蛋白。Aβ是一个具有导致阿尔兹海默斯病作用的神经毒多肽。ERAB被认为是一个羟基类固醇脱氢酶。它表达在正常组织，但是，在阿尔兹海默斯病神经损伤时过渡表达，在培养细胞中当Aβ的毒性作用增加是过度

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