

## Product datasheet for **AP20285PU-N**

### ERAB (HSD17B10) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of HADH2 protein.
Formulation:	Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen; purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 27 kDa
Gene Name:	hydroxysteroid (17-beta) dehydrogenase 10
Database Link:	<a href="#">Entrez Gene 15108 Mouse</a> <a href="#">Entrez Gene 63864 Rat</a> <a href="#">Entrez Gene 3028 Human</a> <a href="#">Q99714</a>



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**Background:**

$\beta$ -Amyloid is a neurotoxic peptide that is associated with the pathogenesis of Alzheimer's disease.  $\beta$ -Amyloid aggregates induce cell death of neurons through the disruption of cell membranes and the generation of reactive oxygen intermediates. These neurotoxic effects are also attributed to the interaction of  $\beta$ -Amyloid with intracellular proteins, specifically ERAB, the endoplasmic reticulum-associated  $\beta$ -Amyloid-binding protein. ERAB is characterized as a NAD<sup>+</sup>-dependent dehydrogenase that is constitutively expressed in tissues and overexpressed in neurons affected in Alzheimer's disease. Cells overexpressing ERAB in vitro have been shown to be more sensitive to  $\beta$ -Amyloid-induced stress, and blocking the activity of ERAB has been shown to inhibit this cell death, indicating that  $\beta$ -Amyloid induced cell death is mediated by ERAB.

**Synonyms:**

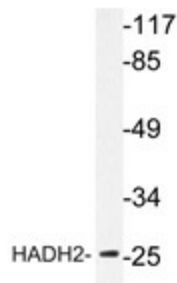
HADH2, MRPP2, SCHAD, XH98G2, 17-beta-HSD10, Mitochondrial Marker

**Protein Families:**

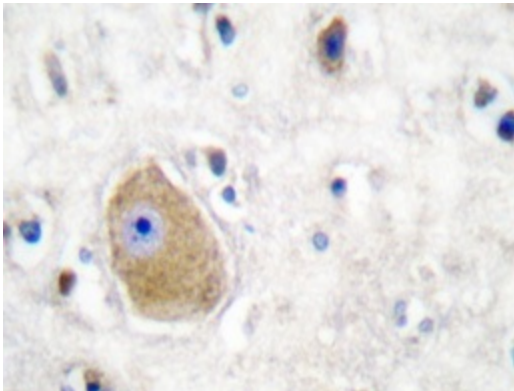
Druggable Genome

**Protein Pathways:**

Alzheimer's disease, Metabolic pathways, Valine, leucine and isoleucine degradation

**Product images:**

Western blot analysis of HADH2 antibody (AP20285PU-N) in extracts from LOVO cells.



Immunohistochemistry analyzes of HADH2 antibody (AP20285PU-N) in paraffin-embedded human brain tissue.