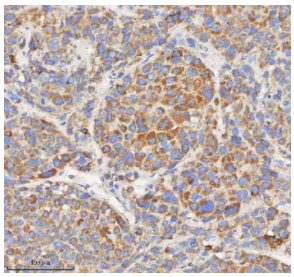
# HADHB Antibody / 3-ketoacyl-CoA thiolase (RQ8848)

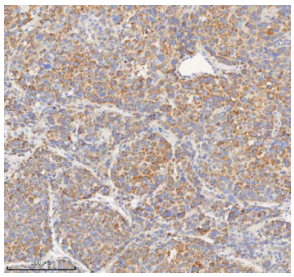
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ8848 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-2 days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity chromatography |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | P55084 |
| **Localization** | Cytoplasm |
| **Applications** | Western Blot : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 2-5ug/ml<br>Immunofluorescence : 5ug/ml<br>Flow Cytometry : 1-3ug/million cells<br>ELISA : 0.1-0.5ug/ml |
| **Limitations** | This HADHB antibody is available for research use only. |



IHC staining of FFPE human liver cancer tissue with HADHB antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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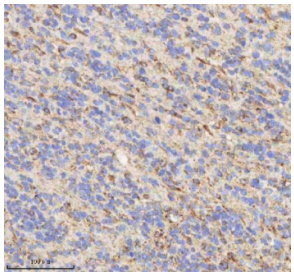
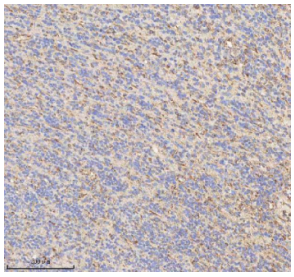


IHC staining of FFPE human glioblastoma tissue with HADHB antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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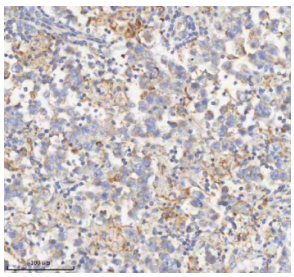
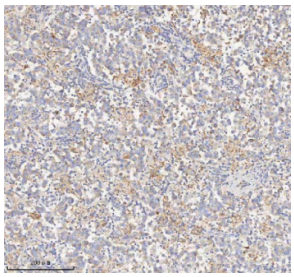


IHC staining of FFPE human testicular seminoma tissue with HADHB antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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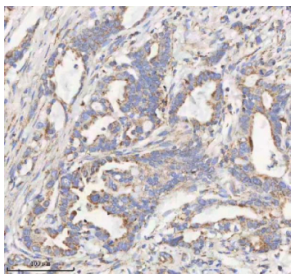
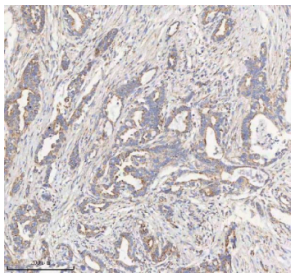


IHC staining of FFPE human pancreas ductal adenocarcinoma tissue with HADHB antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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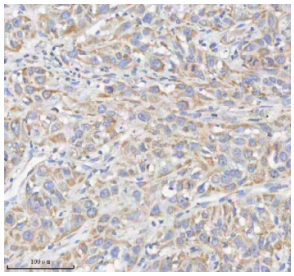
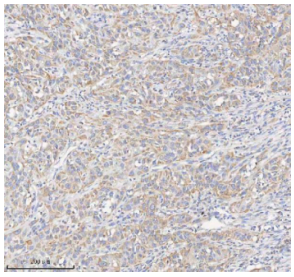


IHC staining of FFPE human urothelial carcinoma tissue with HADHB antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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## Description

Trifunctional enzyme subunit beta, mitochondrial (TP-beta) also known as 3-ketoacyl-CoA thiolase, acetyl-CoA acyltransferase, or beta-ketothiolase is an enzyme that in humans is encoded by the HADHB gene. This gene encodes the beta subunit of the mitochondrial trifunctional protein, which catalyzes the last three steps of mitochondrial beta-oxidation of long chain fatty acids. The mitochondrial membrane-bound heterocomplex is composed of four alpha and four beta subunits, with the beta subunit catalyzing the 3-ketoacyl-CoA thiolase activity. The encoded protein can also bind RNA and decreases the stability of some mRNAs. The genes of the alpha and beta subunits of the mitochondrial trifunctional protein are located adjacent to each other in the human genome in a head-to-head orientation. Mutations in this gene result in trifunctional protein deficiency. Alternatively spliced transcript variants encoding different isoforms have been described.

## Application Notes

Optimal dilution of the HADHB antibody should be determined by the researcher.

## Immunogen

An E.coli-derived human recombinant protein (amino acids A18-H379) was used as the immunogen for the HADHB antibody.

## Storage

After reconstitution, the HADHB antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.