

ADHFE1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9062c**Specification**

ADHFE1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q8IWW8](#)**ADHFE1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 137872**Other Names**

Hydroxyacid-oxoacid transhydrogenase, mitochondrial, HOT, Alcohol dehydrogenase iron-containing protein 1, ADHFe1, Fe-containing alcohol dehydrogenase, ADHFE1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP9062c](/products/AP9062c) was selected from the Center region of human ADHFE1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ADHFE1 Antibody (Center) Blocking Peptide - Protein Information**Name** ADHFE1**Function**

Catalyzes the cofactor-independent reversible oxidation of gamma-hydroxybutyrate (GHB) to succinic semialdehyde (SSA) coupled to reduction of 2-ketoglutarate (2-KG) to D-2-hydroxyglutarate (D-2-HG). D,L-3-hydroxyisobutyrate and L-3-hydroxybutyrate (L-3-OHB) are also substrates for HOT with 10-fold lower activities.

Cellular Location

Mitochondrion.

Tissue Location

Only expressed in adult liver.

ADHFE1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

ADHFE1 Antibody (Center) Blocking Peptide - Images

ADHFE1 Antibody (Center) Blocking Peptide - Background

The ADHFE1 protein encodes hydroxyacid-oxoacid transhydrogenase (EC 1.1.99.24), which is responsible for the oxidation of 4-hydroxybutyrate in mammalian tissues.

ADHFE1 Antibody (Center) Blocking Peptide - References

Lyon,R.C., et.al., Chem. Biol. Interact. 178 (1-3), 283-287 (2009)Kardon,T., et.al., FEBS Lett. 580 (9), 2347-2350 (2006)