

Acetyl Coenzyme A Carboxylase peptide ab195232

Description

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| Product name | Acetyl Coenzyme A Carboxylase peptide |
| Animal free | No |
| Nature | Synthetic |

Specifications

Our **Abpromise guarantee** covers the use of **ab195232** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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| Applications | Blocking - Blocking peptide for Anti-Acetyl Coenzyme A Carboxylase antibody [EP687Y] (<u>ab45174</u>) |
| Form | Liquid |
| Additional notes | <p>This is the blocking peptide for <u>ab45174</u></p> <ul style="list-style-type: none"> - First try to dissolve a small amount of peptide in either water or buffer. The more charged residues on a peptide, the more soluble it is in aqueous solutions. - If the peptide doesn't dissolve try an organic solvent e.g. DMSO, then dilute using water or buffer. - Consider that any solvent used must be compatible with your assay. If a peptide does not dissolve and you need to recover it, lyophilise to remove the solvent. - Gentle warming and sonication can effectively aid peptide solubilisation. If the solution is cloudy or has gelled the peptide may be in suspension rather than solubilised. - Peptides containing cysteine are easily oxidised, so should be prepared in solution just prior to use. |

Preparation and Storage

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| Stability and Storage | Shipped at 4°C. Store at -20°C. |
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General Info

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| Function | Catalyzes the rate-limiting reaction in the biogenesis of long-chain fatty acids. Carries out three functions: biotin carboxyl carrier protein, biotin carboxylase and carboxyltransferase. |
| Tissue specificity | Expressed in brain, placental, skeletal muscle, renal, pancreatic and adipose tissues; expressed at low level in pulmonary tissue; not detected in the liver. |

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| Pathway | Lipid metabolism; malonyl-CoA biosynthesis; malonyl-CoA from acetyl-CoA: step 1/1. |
| Involvement in disease | Acetyl-CoA carboxylase 1 deficiency |
| Sequence similarities | Contains 1 ATP-grasp domain. Contains 1 biotin carboxylation domain. Contains 1 biotinyl-binding domain. Contains 1 carboxyltransferase domain. |
| Post-translational modifications | Phosphorylation on Ser-1263 is required for interaction with BRCA1. |
| Cellular localization | Cytoplasm. |

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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