

CRAT Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6565a**Specification**

CRAT Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P43155](#)**CRAT Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 1384**Other Names**

Carnitine O-acetyltransferase, Carnitine acetylase, Carnitine acetyltransferase, CAT, CrAT, CRAT, CAT1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6565a](/products/AP6565a) was selected from the N-term region of human CRAT. 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.

CRAT Antibody (N-term) Blocking Peptide - Protein Information**Name** CRAT ([HGNC:2342](#))**Synonyms** CAT1**Function**

Catalyzes the reversible transfer of acyl groups from carnitine to coenzyme A (CoA) and regulates the acyl-CoA/CoA ratio. Also plays a crucial role in the transport of fatty acids for beta- oxidation (PubMed: [15099582](http://www.uniprot.org/citations/15099582), PubMed: [29395073](http://www.uniprot.org/citations/29395073)). Responsible for the synthesis of short- and branched-chain acylcarnitines (PubMed: [23485643](http://www.uniprot.org/citations/23485643)). Active towards some branched-chain amino acid oxidation pathway (BCAAO) intermediates (PubMed: [23485643](http://www.uniprot.org/citations/23485643)). Trans-2-enoyl-CoAs and 2-methylacyl-CoAs are poor substrates (PubMed: [23485643](#)).

href="http://www.uniprot.org/citations/23485643" target="_blank">23485643).

Cellular Location

Endoplasmic reticulum. Peroxisome. Mitochondrion inner membrane; Peripheral membrane protein; Matrix side [Isoform 2]: Peroxisome

Tissue Location

Mostly in skeletal muscle, less in heart, liver and pancreas, only weakly detectable in brain, placenta, lung and kidney

CRAT Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CRAT Antibody (N-term) Blocking Peptide - Images**CRAT Antibody (N-term) Blocking Peptide - Background**

CRAT is carnitine acetyltransferase (CRAT), which is a key enzyme in the metabolic pathway in mitochondria, peroxisomes and endoplasmic reticulum. CRAT catalyzes the reversible transfer of acyl groups from an acyl-CoA thioester to carnitine and regulates the ratio of acylCoA/CoA in the subcellular compartments.

CRAT Antibody (N-term) Blocking Peptide - References

Govindasamy,L., J. Struct. Biol. 146 (3), 416-424 (2004)Jogl,G., Cell 112 (1), 113-122 (2003)