

**AADAT Antibody (Center) Blocking peptide**  
Synthetic peptide  
Catalog # BP10161c**Specification**

---

**AADAT Antibody (Center) Blocking peptide - Product Information**

Primary Accession [O8N5Z0](#)  
Other Accession [NP\\_872603.1](#), [NP\\_057312.1](#)

**AADAT Antibody (Center) Blocking peptide - Additional Information**

Gene ID 51166

**Other Names**

Kynurenine/alpha-aminoadipate aminotransferase, mitochondrial, KAT/AadAT, 2-aminoadipate aminotransferase, 2-aminoadipate transaminase, Alpha-aminoadipate aminotransferase, AadAT, Kynurenine aminotransferase II, Kynurenine--oxoglutarate aminotransferase II, Kynurenine--oxoglutarate transaminase 2, Kynurenine--oxoglutarate transaminase II, AADAT, KAT2

**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.

**AADAT Antibody (Center) Blocking peptide - Protein Information**

Name AADAT ([HGNC:17929](#))

**Function**

Transaminase with broad substrate specificity. Has transaminase activity towards aminoadipate, kynurenine, methionine and glutamate. Shows activity also towards tryptophan, aspartate and hydroxykynurenine. Accepts a variety of oxo-acids as amino-group acceptors, with a preference for 2-oxoglutarate, 2-oxocaproic acid, phenylpyruvate and alpha-oxo-gamma-methiol butyric acid. Can also use glyoxylate as amino-group acceptor (in vitro).

**Cellular Location**

Mitochondrion.

**Tissue Location**

Higher expression in the liver. Also found in heart, brain, kidney, pancreas, prostate, testis and ovary

## **AADAT Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

## **AADAT Antibody (Center) Blocking peptide - Images**

## **AADAT Antibody (Center) Blocking peptide - Background**

This gene encodes a protein that is highly similar to mouse and rat kynurenine aminotransferase II. The rat protein is a homodimer with two transaminase activities. One activity is the transamination of alpha-amino adipic acid, a final step in the saccharopine pathway which is the major pathway for L-lysine catabolism. The other activity involves the transamination of kynurenine to produce kynurenine acid, the precursor of kynurenic acid which has neuroprotective properties. Two alternative transcripts encoding the same isoform have been identified, however, additional alternative transcripts and isoforms may exist.

## **AADAT Antibody (Center) Blocking peptide - References**

Han, Q., et al. Biosci. Rep. 28(4):205-215(2008) Rossi, F., et al. J. Biol. Chem. 283(6):3559-3566(2008) Han, Q., et al. J. Biol. Chem. 283(6):3567-3573(2008) Lamesch, P., et al. Genomics 89(3):307-315(2007) Goh, D.L., et al. Mol. Genet. Metab. 76(3):172-180(2002)