

**Goat Anti-AADAT Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1004a****Specification**

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**Goat Anti-AADAT Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q8N5Z0</a>
Other Accession	<a href="#">NP_872603</a> , <a href="#">51166</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	47352

**Goat Anti-AADAT Antibody - Additional Information****Gene ID** 51166**Other Names**

Kynurenine/alpha-aminoadipate aminotransferase, mitochondrial, KAT/AadAT, 2-aminoadipate aminotransferase, 2-aminoadipate transaminase, 2.6.1.39, Alpha-aminoadipate aminotransferase, AadAT, Kynurenine aminotransferase II, Kynurenine--oxoglutarate aminotransferase II, Kynurenine--oxoglutarate transaminase 2, 2.6.1.7, Kynurenine--oxoglutarate transaminase II, AADAT, KAT2

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-AADAT Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-AADAT Antibody - 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

**Goat Anti-AADAT Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-AADAT Antibody - Images**

AF1004a (1 µg/ml) staining of Human Liver lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**Goat Anti-AADAT Antibody - 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.

**Goat Anti-AADAT Antibody - References**

Substrate specificity and structure of human aminoadipate aminotransferase/kynurenine

aminotransferase II. Han Q, et al. Biosci Rep, 2008 Aug. PMID 18620547.

Crystal structure of human kynurenine aminotransferase II, a drug target for the treatment of schizophrenia. Rossi F, et al. J Biol Chem, 2008 Feb 8. PMID 18056996.

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The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.

Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039.