

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

Goat Anti-AADAT Antibody - Product Information

Application	WB, E
Primary Accession	Q8N5Z0
Other Accession	NP_872603 , 51166
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

Dilution

WB~~1:1000
E~~N/A

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-aminoadipic 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.

Crystal structure of human kynurenine aminotransferase II. Han Q, et al. J Biol Chem, 2008 Feb 8. PMID 18056995.

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.