

AADAT Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10161C**Specification**

AADAT Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O8N5Z0
Other Accession	NP_872603.1 , NP_057312.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	47352
Antigen Region	196-224

AADAT Antibody (Center) - 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

Target/Specificity

This AADAT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 196-224 amino acids from the Central region of human AADAT.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

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

Precautions

AADAT Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

AADAT Antibody (Center) - Protein Information**Name** AADAT ([HGNC:17929](#))

Function Transaminase with broad substrate specificity. Has transaminase activity towards amino adipate, 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-methyl butyric acid. Can also use glyoxylate as amino-group acceptor (in vitro).

Cellular Location

Mitochondrion.

Tissue Location

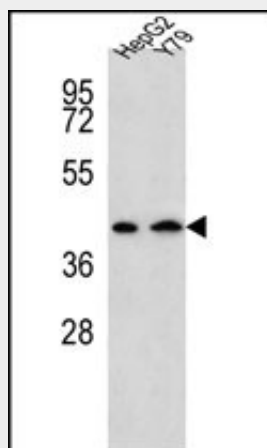
Higher expression in the liver. Also found in heart, brain, kidney, pancreas, prostate, testis and ovary

AADAT Antibody (Center) - 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](#)

AADAT Antibody (Center) - Images



AADAT Antibody (Center) (Cat. #AP10161c) western blot analysis in HepG2,Y79 cell line lysates (35ug/lane). This demonstrates the AADAT antibody detected the AADAT protein (arrow).

AADAT Antibody (Center) - 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 saccaropine 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) - 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)