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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 Ig**
Calculated MW	**47352**
Antigen Region	**196-224**

AADAT Antibody (Center) - Additional Information

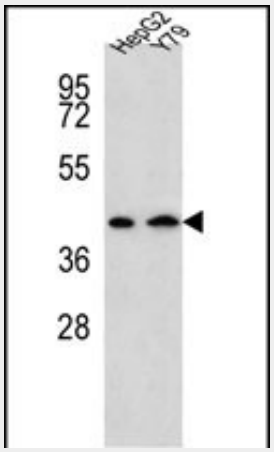
Gene ID 51166

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.



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-aminoadipic 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

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.

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)

AADAT Antibody (Center) - 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) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture