

For Research Use Only

AADAT Polyclonal antibody

Catalog Number: 13031-1-AP

5 Publications



Basic Information

Catalog Number:

13031-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3676

GenBank Accession Number:

BC031068

GeneID (NCBI):

51166

UNIPROT ID:

Q8N5Z0

Full Name:

aminoadipate aminotransferase

Calculated MW:

429 aa, 48 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IHC: 1:50-1:500

Applications

Tested Applications:

IHC, ELISA

Cited Applications:

IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

mouse, monkey

Positive Controls:

IHC: mouse cerebellum tissue, human liver cancer tissue

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

AADAT (alpha-aminoadipate aminotransferase), also known as KAT (kynurenine aminotransferase) II, is a primary enzyme in the brain for catalysing the transamination of kynurenine to KYNA (kynurenic acid). KYNA is the only known endogenous antagonist of the N-methyl-D-aspartate receptor. AADAT is also involved in lysine metabolism by catalyzing the transamination of aminoadipate to a-ketoadipate (PMID: 17024659, 18056995). The human AADAT enzyme is also predicted to contain a mitochondrial cleavage signal, suggesting that AADAT is a mitochondrial protein (PMID: 19826765).

Notable Publications

Author	Pubmed ID	Journal	Application
Emma Balog	33238153	Neurochem Int	IHC
Harry R Gosker	31247950	J Clin Med	
Judit Herédi	27568378	Brain Struct Funct	IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

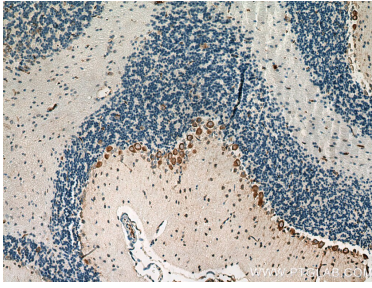
For technical support and original validation data for this product please contact:

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Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 13031-1-AP (AADC antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).