For Research Use Only

AADAT Polyclonal antibody

Catalog Number:13031-1-AP 5 Publications

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Basic Information

Catalog Number:
13031-1-AP

Concentration:
450 ug/ml

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

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

Positive Controls:

IHC : mouse cerebellum tissue, human liver cancer tissue

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

For technical support and original validation data for this product please contact:
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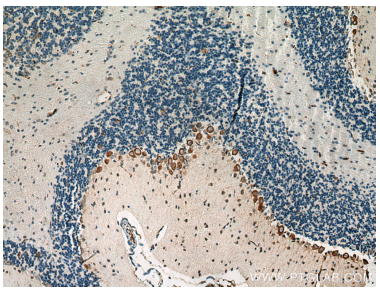
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



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