

# GABA transaminase (ABAT) Rabbit pAb

Catalog No.: A5299

1 Publications

## Basic Information

**Observed MW**

50kDa

**Calculated MW**

56kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IF/ICC

**Cross-Reactivity**

Human, Mouse, Rat

## Background

4-aminobutyrate aminotransferase (ABAT) is responsible for catabolism of gamma-aminobutyric acid (GABA), an important, mostly inhibitory neurotransmitter in the central nervous system, into succinic semialdehyde. The active enzyme is a homodimer of 50-kD subunits complexed to pyridoxal-5-phosphate. The protein sequence is over 95% similar to the pig protein. GABA is estimated to be present in nearly one-third of human synapses. ABAT in liver and brain is controlled by 2 codominant alleles with a frequency in a Caucasian population of 0.56 and 0.44. The ABAT deficiency phenotype includes psychomotor retardation, hypotonia, hyperreflexia, lethargy, refractory seizures, and EEG abnormalities. Multiple alternatively spliced transcript variants encoding the same protein isoform have been found for this gene.

## Recommended Dilutions

**WB** 1:500 - 1:1000**IF/ICC** 1:50 - 1:200

## Immunogen Information

**Gene ID**

18

**Swiss Prot**

P80404

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 29-300 of human GABA transaminase (GABA transaminase (ABAT)) (NP\_001120920.1).

**Synonyms**

GABAT; NPD009; GABA-AT

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

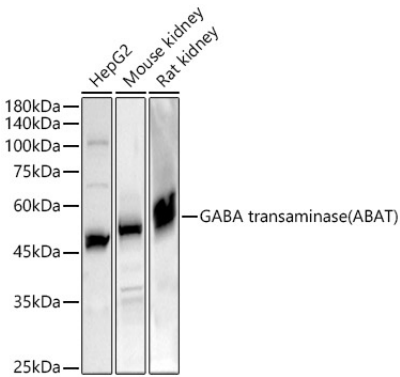
Affinity purification

**Storage**

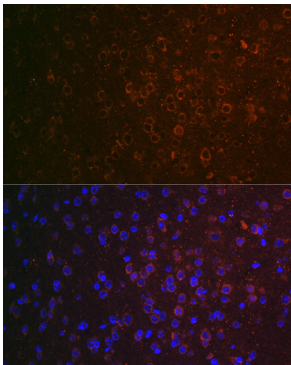
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

## Validation Data



Western blot analysis of various lysates, using GABA transaminase (ABAT) Rabbit pAb (A5299) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 10s.



Immunofluorescence analysis of mouse brain using GABA transaminase (GABA transaminase (ABAT)) Rabbit pAb (A5299) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.