



Rabbit Anti-ABAT antibody

SL4234R

Product Name:	ABAT
Chinese Name:	γ-氨基丁酸转氨酶抗体
Alias:	mitochondrial; (S) 3 amino 2 methylpropionate transaminase; (S)-3-amino-2-methylpropionate transaminase; 4 aminobutyrate aminotransferase; 4 aminobutyrate aminotransferase, mitochondrial; 4-aminobutyrate aminotransferase; ABAT; GABA aminotransferase; GABA AT; GABA T; GABA transaminase; GABA transferase; GABA-AT; GABA-T; GABAT; GABT_HUMAN; Gamma amino N butyrate transaminase; Gamma-amino-N-butyrate transaminase; L AIBAT; L-AIBAT; LAIBAT.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	56kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ABAT:151-250/500
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Catalyzes the conversion of gamma-aminobutyrate and L-beta-aminoisobutyrate to succinate semialdehyde and methylmalonate semialdehyde, respectively. Can also

convert delta-aminovalerate and beta-alanine.

Function:

Catalyzes the conversion of gamma-aminobutyrate and L-beta-aminoisobutyrate to succinate semialdehyde and methylmalonate semialdehyde, respectively. Can also convert delta-aminovalerate and beta-alanine.

Subunit:

Homodimer; disulfide-linked.

Subcellular Location:

Mitochondrion matrix.

Tissue Specificity:

Liver > pancreas > brain > kidney > heart > placenta.

DISEASE:

Defects in ABAT are a cause of gamma-aminobutyrate transaminase deficiency (GABA-AT deficiency) [MIM:613163]. The phenotype of this deficiency includes psychomotor retardation, hypotonia, hyperreflexia, lethargy, refractory seizures, and EEG abnormalities.

Similarity:

Belongs to the class-III pyridoxal-phosphate-dependent aminotransferase family.

SWISS:

P80404

Gene ID:

18

Database links:

[Entrez Gene: 18](#)Human

[Entrez Gene: 268860](#)Mouse

[Entrez Gene: 81632](#)Rat

[Omim: 137150](#)Human

[SwissProt: P80404](#)Human

[SwissProt: P61922](#)Mouse

[SwissProt: P50554](#)Rat

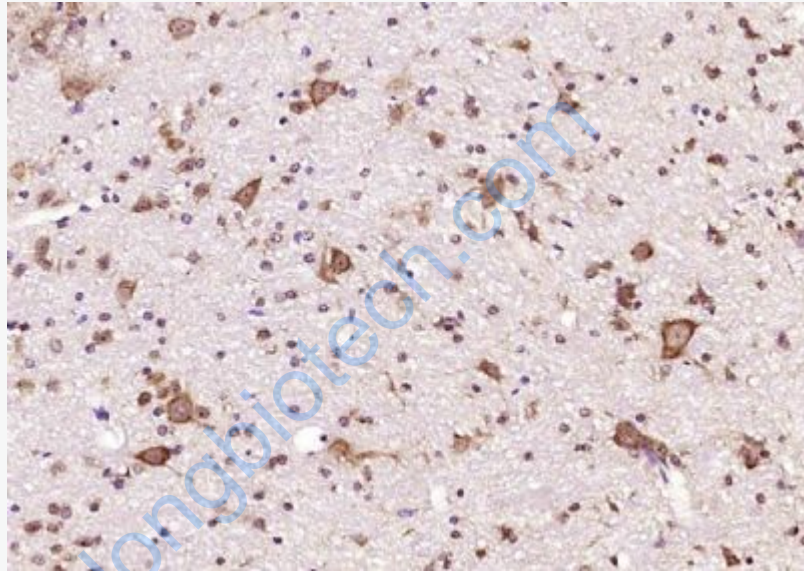
[Unigene: 336768](#)Human

[Unigene: 259315](#)Mouse

[Unigene: 10090](#)Rat

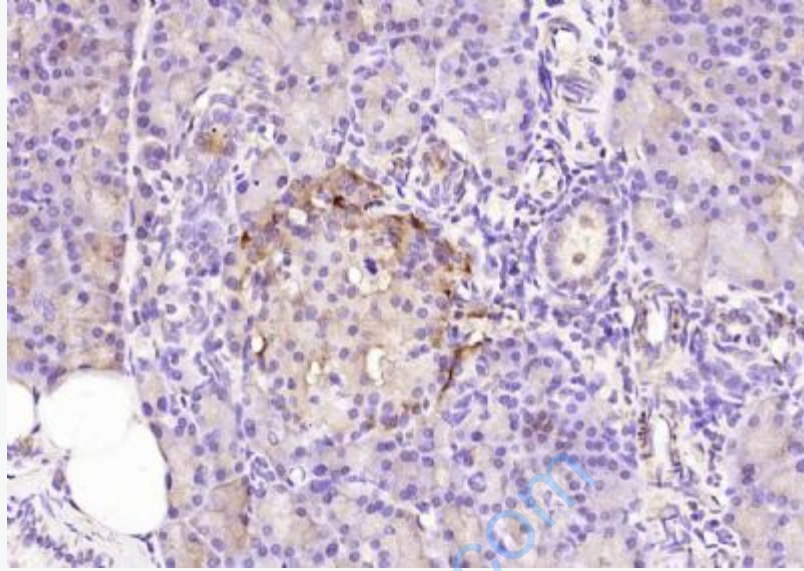
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

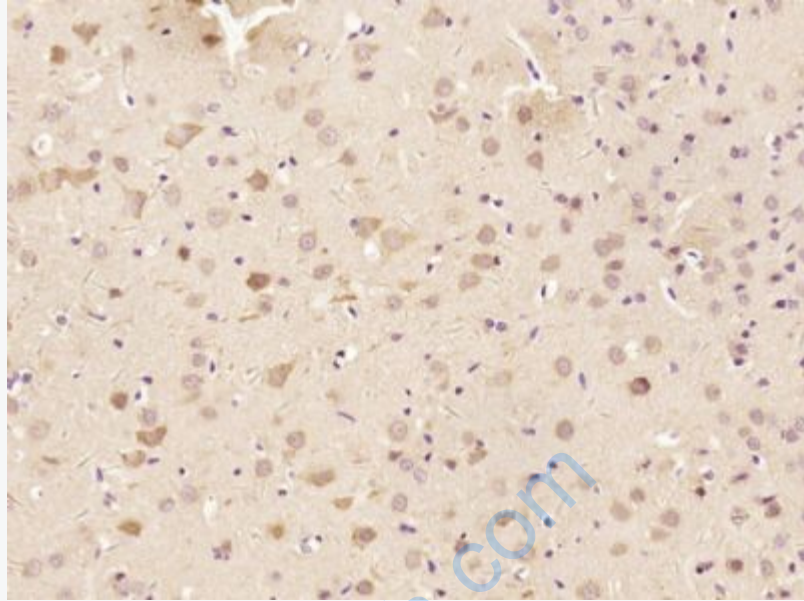


Picture:

Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ABAT) Polyclonal Antibody, Unconjugated (SL4234R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ABAT) Polyclonal Antibody, Unconjugated (SL4234R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ABAT) Polyclonal Antibody, Unconjugated (SL4234R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.