

Datasheet for ABIN2854765

anti-ABAT antibody

6 Images

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Overview

Quantity:	100 µL
Target:	ABAT
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ABAT antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human ABAT. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to ABAT (4-aminobutyrate aminotransferase) ABAT antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	ABAT
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Target Details

Alternative Name:	4-aminobutyrate aminotransferase (ABAT Products)
Background:	<p>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.</p> <p>Cellular Localization: Mitochondrion matrix</p>
Molecular Weight:	56 kDa
Gene ID:	18
UniProt:	P80404
Pathways:	Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	WB: 1:500-1:10000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. IHC-Fr: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: SK-N-SH , mouse brain , rat brain
Restrictions:	For Research Use only

Handling

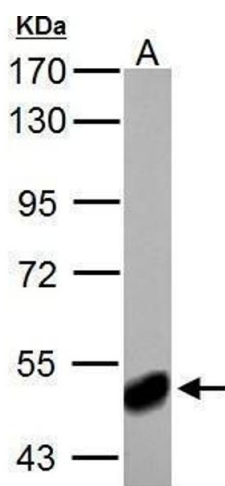
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	1XPBS (pH 7), 20 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: 4 °C, -20 °C

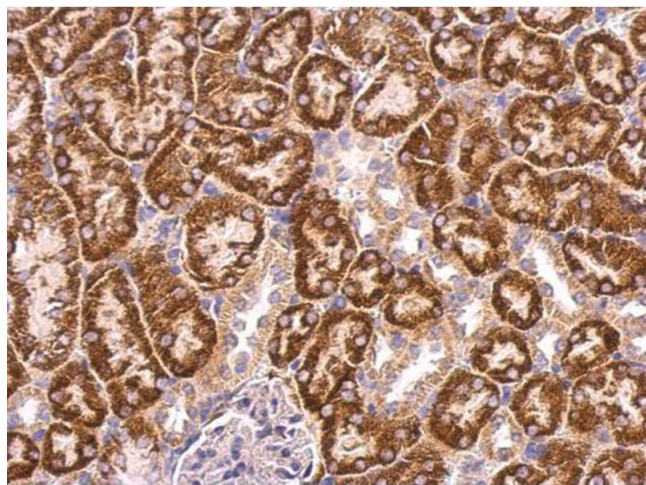
Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Images



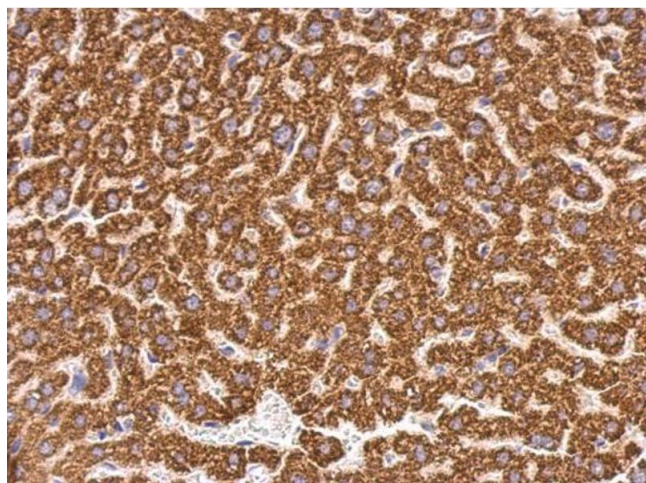
Western Blotting

Image 1. WB Image ABAT antibody detects ABAT protein by Western blot analysis. A. 50 µg Rat brain lysate/extract 7.5 % SDS-PAGE ABAT antibody , dilution: 1:1000



Immunohistochemistry

Image 2. IHC-P Image ABAT antibody detects ABAT protein at mitochondria on mouse kidney by immunohistochemical analysis. Sample: Paraffin-embedded mouse kidney. ABAT antibody , dilution: 1:500.



Immunohistochemistry

Image 3. IHC-P Image ABAT antibody detects ABAT protein at mitochondria on mouse liver by immunohistochemical analysis. Sample: Paraffin-embedded mouse liver. ABAT antibody , dilution: 1:500.

Images

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN2854765.