

Datasheet for ABIN4886408 anti-ABAT antibody (AA 388-500)

1 Image



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Quantity:	100 μg
Target:	ABAT
Binding Specificity:	AA 388-500
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ABAT antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-ABAT Antibody Picoband®
Immunogen:	E. coli-derived human ABAT recombinant protein (Position: K388-K500). Human ABAT shares 93.9% and 94.5% amino acid (aa) sequence identity with mouse and rat ABAT, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ABAT Antibody Picoband® (ABIN4886408). Tested in Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details Purification: Immunogen affinity purified. **Target Details** Target: **ABAT** Alternative Name: **ABAT (ABAT Products)** Background: Synonyms: 4-aminobutyrate aminotransferase, mitochondrial, 2.6.1.19, (S)-3-amino-2methylpropionate transaminase, 2.6.1.22, GABA aminotransferase, GABA-AT, Gamma-amino-Nbutyrate transaminase, GABA transaminase, GABA-T, L-AIBAT, ABAT, GABAT, Tissue Specificity: Liver > pancreas > brain > kidney > heart > placenta. Background: 4-Aminobutyrate aminotransferase is a protein that in humans is encoded by the ABAT gene. 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-5phosphate. The protein sequence is over 95 % similar to the pig protein. GABA is estimated to be present in nearly one-third of humans ynapses. 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, refractoryseizures, and EEG abnormalities. Multiple alternatively spliced transcript variants encoding the same protein isoform have been found for this gene. Sequence Similarities: Belongs to the transient receptor (TC 1.A.4) family. STrpC subfamily. TRPC4 sub-subfamily. Malagular Waight E4 L/Da

Molecular Weight.	54 KDa	
Gene ID:	18	
UniProt:	P80404	
Pathways:	Monocarboxylic Acid Catabolic Process	

Application Details

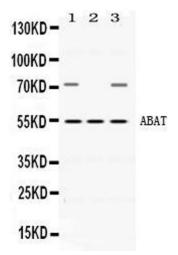
Application Notes:	Application Notes:	Western blot, 0.1-0.5 μg/mL, Human, Mouse, Rat
		Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human
		Flow Cytometry (Fixed), 1-3 µg/1x10 ⁶ cells, Human
		1. De Biase D, Barra D, Simmaco M, John RA, Bossa F (Jan 1995). "Primary structure and tissue
		distribution of human 4-aminobutyrate aminotransferase". European Journal of Biochemistry /

FEBS 227 (1-2): 476-80. 2. Medina-Kauwe LK, Tobin AJ, De Meirleir L, Jaeken J, Jakobs C,

Application Details

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	Nyhan WL, Gibson KM (Jun 1999). "4-Aminobutyrate aminotransferase (GABA-transaminase) deficiency". Journal of Inherited Metabolic Disease 22 (4): 414-27.	
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μg/mL.	
Concentration:	500 μg/mL	
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Handling Advice:	Avoid repeated freezing and thawing.	
Storage:	4 °C,-20 °C	
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.	

Images



Western Blotting

Image 1. Western blot analysis of ABAT expression in rat brain extract (Lane 1), mouse testis extract (Lane 2) and HEPG2 whole cell lysates (Lane 3). ABAT at 54KD was detected using rabbit anti-ABAT Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).