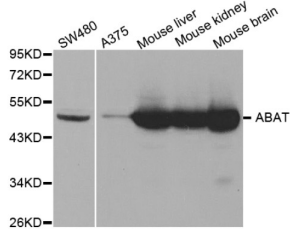
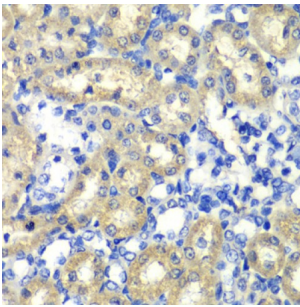


## 4-Aminobutyrate Aminotransferase (ABAT) Antibody

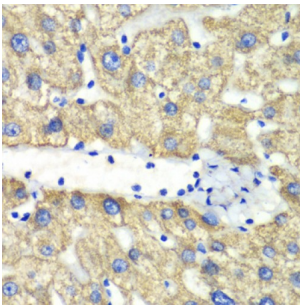
Catalogue No.: abx004049



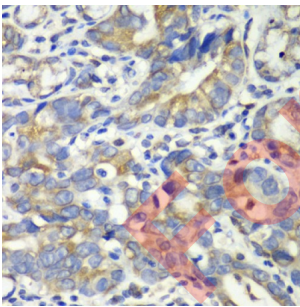
Western blot analysis of extracts of various cell lines, using ABAT antibody (abx004049) at 1/1000 dilution.



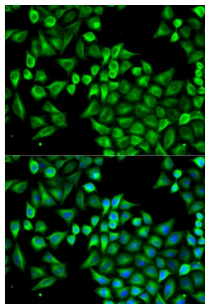
Immunohistochemistry of paraffin-embedded rat kidney using ABAT antibody (abx004049) at dilution of 1/100 (40x lens).



Immunohistochemistry of paraffin-embedded human liver injury using ABAT antibody (abx004049) at dilution of 1/100 (40x lens).



Immunohistochemistry of paraffin-embedded human gastric cancer using ABAT antibody (abx004049) at dilution of 1/100 (40x lens).



Immunofluorescence analysis of A549 cells using ABAT antibody (abx004049). Blue: DAPI for nuclear staining.

# Datasheet

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ABAT Antibody is a Rabbit Polyclonal antibody against ABAT. 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.

<b>Target:</b>	4-Aminobutyrate Aminotransferase (ABAT)
<b>Clonality:</b>	Polyclonal
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Tested Applications:</b>	WB, IF/ICC
<b>Host:</b>	Rabbit
<b>Recommended dilutions:</b>	WB: 1/500 - 1/1000, IF/ICC: 1/50 - 1/200. Optimal dilutions/concentrations should be determined by the end user.
<b>Conjugation:</b>	Unconjugated
<b>Immunogen:</b>	Recombinant fusion protein containing a sequence corresponding to amino acids 29-300 of human GABA transaminase (ABAT).
<b>Isotype:</b>	IgG
<b>Form:</b>	Liquid
<b>Purification:</b>	Purified by affinity chromatography.
<b>Storage:</b>	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
<b>UniProt Primary AC:</b>	P80404 ( <a href="#">UniProt</a> , <a href="#">ExPASy</a> )
<b>Gene Symbol:</b>	ABAT
<b>GeneID:</b>	<a href="#">18</a>
<b>OMIM:</b>	<a href="#">137150</a>
<b>NCBI Accession:</b>	NP_001120920.1
<b>HGNC:</b>	23
<b>KEGG:</b>	hsa:18

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**Ensembl:** ENSG00000183044

**String:** [9606.ENSP00000379845](#)

**Molecular Weight:** Calculated MW: 56 kDa  
Observed MW: 50 kDa

**Buffer:** PBS, pH 7.3, containing 0.09% sodium azide, 50% glycerol.

**Concentration:** > 0.2 mg/ml

**Note:** This product is for research use only.

For Reference Only