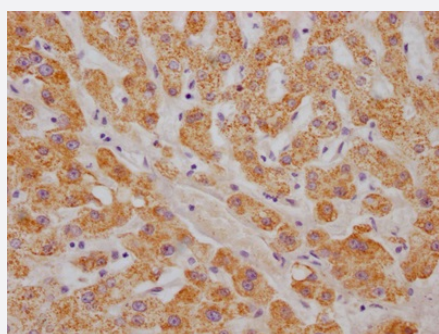


RecomAb™

# ABAT recombinant monoclonal antibody, clone 5B6

Catalog # RAB07527      Size 100 uL

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human liver tissue using ABAT recombinant monoclonal antibody, clone 5B6 (Cat # RAB07527) on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

## Specification

<b>Product Description</b>	Rabbit recombinant monoclonal antibody raised against human ABAT.
<b>Antibody Species</b>	Rabbit
<b>Immunogen</b>	Original antibody is raised against a synthetic peptide corresponding to human ABAT.
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Affinity chromatography purification
<b>Isotype</b>	IgG
<b>Recommend Usage</b>	ELISA Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)

**Storage Instruction**

Store at -20°C or -80°C.  
Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Enzyme-linked Immunoabsorbent Assay

## Gene Info — ABAT

**Entrez GeneID**[18](#)**Protein Accession#**[P80404](#)**Gene Name**

ABAT

**Gene Alias**

FLJ17813, GABA-AT, GABAT, NPD009

**Gene Description**

4-aminobutyrate aminotransferase

**Omim ID**[137150](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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 co dominant 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. [provided by RefSeq]

**Other Designations**

GABA aminotransferase|GABA transferase|gamma-amino-N-butyrate transaminase

## Pathway

- [Alanine](#)
- [beta-Alanine metabolism](#)
- [Butanoate metabolism](#)
- [Metabolic pathways](#)
- [Propanoate metabolism](#)
- [Valine](#)

## Disease

- [Asperger Syndrome](#)
- [Autistic Disorder](#)
- [Dyskinesia](#)
- [Genetic Predisposition to Disease](#)
- [Narcolepsy](#)
- [Schizophrenia](#)
- [Social Perception](#)
- [Tobacco Use Disorder](#)