

# Recombinant Full Length Human ABAT Protein, GST-tagged

Cat. No. ABAT-762HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human ABAT full-length ORF ( AAH08990, 1 a.a. - 116 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	116 amino acids
<b>Description</b>	<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. [provided by RefSeq, Jul 2008]</p>
<b>Molecular Mass</b>	38.5 kDa
<b>AA Sequence</b>	MENHHSPKGGQ RRFQRKGVIG AVFCRMSQSS PSRQGKEGCC REGTAYAKAY QFMASHLSLG KPVSTGSIPR FNKALFNKQA KCKPNHYSFI GLSMLSPENF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SIGCKYSVWF SETKGF

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**GENE INFORMATION**

**Gene Name**

[ABAT 4-aminobutyrate aminotransferase \[ Homo sapiens \]](#)

**Official Symbol**

[ABAT](#)

**Synonyms**

ABAT; 4-aminobutyrate aminotransferase; 4-aminobutyrate aminotransferase, mitochondrial; 4 aminobutyrate transaminase; GABAT; GABA transferase; GABA transaminase; GABA aminotransferase; 4-aminobutyrate transaminase; gamma-amino-N-butyrate transaminase; (S)-3-amino-2-methylpropionate transaminase; NPD009; GABA-AT; FLJ17813; FLJ30272

**Gene ID**

[18](#)

**mRNA Refseq**

[NM\\_020686](#)

**Protein Refseq**


[NP\\_065737](#)

**MIM**

[137150](#)

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UniProt ID

P80404

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