

## Recombinant Human ABAT 293 Cell Lysate

**Cat. No.** ABAT-9154HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for 4-aminobutyrate aminotransferase (ABAT), nuclear gene encoding mitochondrial protein, transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil

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the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## 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](#)

**UniProt ID** [P80404](#)

**Chromosome Location** 16p13.2

**Pathway** 4-aminobutyrate degradation I, organism-specific biosystem; 4-aminobutyrate degradation I, conserved biosystem; Alanine and aspartate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, organism-specific

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biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Butanoate metabolism, organism-specific biosystem; Butanoate metabolism, conserved biosystem;

**Function**

(S)-3-amino-2-methylpropionate transaminase activity; contributes\_to 4-aminobutyrate transaminase activity; 4-aminobutyrate transaminase activity; protein homodimerization activity; pyridoxal phosphate binding; succinate-semialdehyde dehydrogenase binding; transferase activity;

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