# Recombinant Human ABAT 293 Cell Lysate

**Cat. No.** ABAT-9153HCL **Lot. No.** (See product label)

## SPECIFICATION

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| **Species** | Human |
| **Source** | HEK293 |
| **Description** | Antigen standard for 4-aminobutyrate aminotransferase (ABAT), nuclear gene encoding mitochondrial protein, transcript variant 2 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. |
| **Components** | 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). |
| **Size** | 0.1 mg |
| **Storage Instruction** | 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. |
| **Applications** | 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

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| **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_000663 |
| **Protein Refseq** | NP_000654 |
| **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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