

Recombinant Human ABAT 293 Cell Lysate

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

SPECIFICATION

Product Overview

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.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil 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_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-

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