

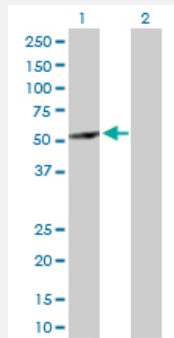
MaxPab®

ABAT purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00000018-D01P

Size 100 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of ABAT expression in transfected 293T cell line ([H00000018-T02](#)) by ABAT MaxPab polyclonal antibody.

Lane 1: ABAT transfected lysate(56.40 kDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human ABAT protein.

Immunogen

ABAT (NP_000654.2, 1 a.a. ~ 500 a.a) full-length human protein.

Sequence

MASMLLAQRLACSFQHSYRLLVPGSRHISQAAAKVDVEFDYDGPLMKTEVPGPRSQELMKQLNII
QNAEAVHFFCNYESRGNLYVDVDGNRMLDLYSQISSVPIGYSHPALLKLIQPPQNASMFVNRPA
LGILPPENFVEKLRQSLLSVAPKGMSQLITMACGSCSNENALKTIFMWYRSKERGQRGFSQEELE
TCMINQAPGCPDYSILSFMGAFHGRMTMGCLATTHSKAIHKIDIPSFWDWPIAPFPRLKYPLEEFVKEN
QQEEARCLEEVEDLVKYRKKKKTVAGIIVEPIQSEGGDNHASDDFFRKLRLDIARKHGCAFLVDEV
QTGGGCTGKFWAHEHWGLDDPADVMTFSKKMMTGFFHKEEFRPNAPYRIFNTWLGDPSKNLL
LAEVINIIKREDLLNNAAHAGKALLTGLLDLQARYPQFISRVGRGTFCSDTPDDSI RNKLILARNK
GVVLGGCGDKSIRFRPTLVFRDHHAHLFLNIFSDILADFK

Host

Rabbit

Reactivity

Human

Interspecies Antigen Sequence

Mouse (91); Rat (92)

Quality Control Testing

Antibody reactive against mammalian transfected lysate.

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

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

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[Protocol Download](#)

Gene Info — ABAT

Entrez GeneID[18](#)**GeneBank Accession#**[NM_000663.3](#)**Protein Accession#**[NP_000654.2](#)**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](#)