DNAxPAb | Hard-to-Find Antibody

# ABAT DNAxPab

Catalog # H00000018-W01P Size 200 ug

## Specification

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|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against a full-length human ABAT DNA using DNAx™ Immune technology. |
| **Technology** | DNAx™ Immune |
| **Immunogen** | Full-length human DNA |
| **Sequence** | MASMLLAQRLACSFQHSYRLLVPGSRHISQAAAKVDVEFDYDGPLMKTEVPGPRSQELMKQLNII QNAEAVHFFCNYEESRGNYLVDVDGNRMLDLYSQISSVPIGYSHPALLKLIQQPQNASMFVNRPA LGILPPENFVEKLRQSLLSVAPKGMSQLITMACGSCSNENALKTIFMWYRSKERGQRGFSQEELE TCMINQAPGCPDYSILSFMGAFHGRTMGCLATTHSKAIHKIDIPSFDWPIAPFPRLKYPLEEFVKEN QQEEARCLEEVEDLIVKYRKKKKTVAGIIVEPIQSEGGDNHASDDFFRKLRDIARKHGCAFLVDEV QTGGGCTGKFWAHEHWGLDDPADVMTFSKKMMTGGFFHKEEFRPNAPYRIFNTWLGDPSKNLL LAEVINIIKREDLLNNAAHAGKALLTGLLDLQARYPQFISRVRGRGTFCSFDTPDDSIRNKLILIARNK GVVLGGCGDKSIRFRPTLVFRDHHAHLFLNIFSDILADFK |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Interspecies Antigen Sequence** | Mouse (91); Rat (91) |
| **Purification** | Protein A |
| **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. |

## Applications

- Flow Cytometry (Transfected cell)

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- Western Blot (Transfected lysate)

  Protocol Download

- Immunofluorescence (Transfected cell)

## Gene Info — ABAT

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|---|---|
| **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 s uccinic semialdehyde. The active enzyme is a homodimer of 50-kD subunits complexed to pyrido xal-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 deficien cy phenotype includes psychomotor retardation, hypotonia, hyperreflexia, lethargy, refractory seizu res, and EEG abnormalities. Multiple alternatively spliced transcript variants encoding the same p rotein 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

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- Propanoate metabolism
- Valine

## Disease

- Asperger Syndrome
- Autistic Disorder
- Dyskinesia
- Genetic Predisposition to Disease
- Narcolepsy
- Schizophrenia
- Social Perception
- Tobacco Use Disorder

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