

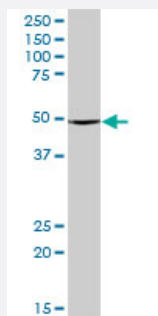
MaxPab®

ABAT purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00000018-B01P

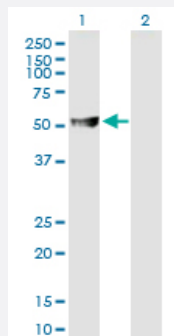
Size 50 ug

Applications



Western Blot (Tissue lysate)

ABAT MaxPab polyclonal antibody. Western Blot analysis of ABAT expression in human liver.



Western Blot (Transfected lysate)

Western Blot analysis of ABAT expression in transfected 293T cell line ([H00000018-T01](#)) by ABAT MaxPab polyclonal antibody.

Lane 1: ABAT transfected lysate(55 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse 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
QNAEAVHFFCNYEESRGNYLVDVDGNRMLDLYSQISSVPIGYSHPALLKLIQQPQNASMFVNRPA
LGILPPENFVEKLRQSLLSVAPKGMSQLITMACGSCSNENALKTIFMWYRSKERGQRGFSQEELE
TCMINQAPGCPDYSILSFMGA FHGR TMGCLATTHSKAIHKIDIPSF DWPIAPFPRLKYPLEEFVKEN
QQEEARCLEEVEDLVKYRKKKKTVAGIVEPIQSEG DNHASDDFFRKL RDIARKHGCAFLVDEV
QTGGGCTGKFWAHEHWGLDDPADVMTFSKKMMTG GFFHKEEFRPNAPYRIFNTWLGDP SKNLL
LAEVINIIKREDLLNNAAHAGKALLTGLLDLQARYPQFISVRVGRGTFC SFDTPDDSI RNKLIL IARNK
GVVLGGCGDKSIRFRPTLVFRDHHHLFLNIFSDILADFK

Host	Mouse
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](#)

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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

Publication Reference

- [Liver protein profiling in chronic hepatitis C: Identification of potential predictive markers for interferon therapy outcome.](#)

Perdomo AB, Ciccocanti F, Iacono OL, Angeletti C, Corazzari M, Daniele N, Testa A, Pisa R, Ippolito G, Antonucci G, Fimia GM, Piacentini M.

Journal of Proteome Research 2012 Feb; 11(2):717.

Application: WB, Human, Liver

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](#)