

ABAT Rabbit pAb

Catalog No.	A5299	Category	Polyclonal Antibodies
Applications	WB, IHC, IF	Observed MW	50kDa
Cross-reactivity	Human, Mouse, Rat	Calculated MW	56kDa

Immunogen Information

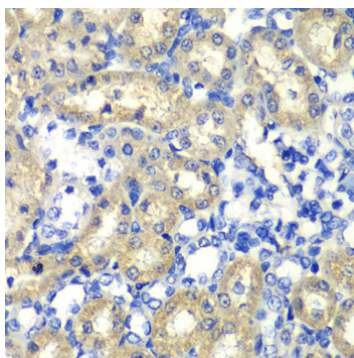
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 29-300 of human ABAT (NP_001120920.1).
Gene ID	18
Swiss prot	P80404
Synonyms	ABAT;GABA-AT;GABAT;NPD009

Product information

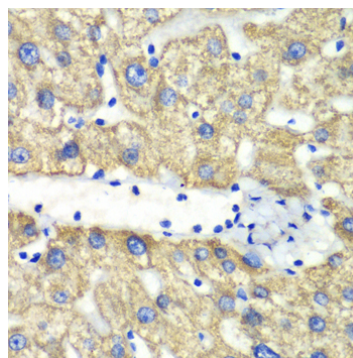
Source	Rabbit
Isotype	IgG
Purification method	Affinity purification
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Background

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 codominant 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.



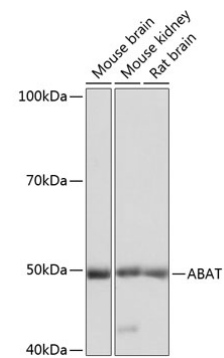
Immunohistochemistry of paraffin-embedded rat kidney using ABAT antibody (A5299) at dilution of 1:100 (40x lens).



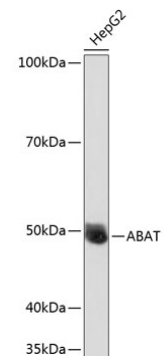
Immunohistochemistry of paraffin-embedded human liver damage using ABAT antibody (A5299) at dilution of 1:100 (40x lens).

Recommended Dilutions

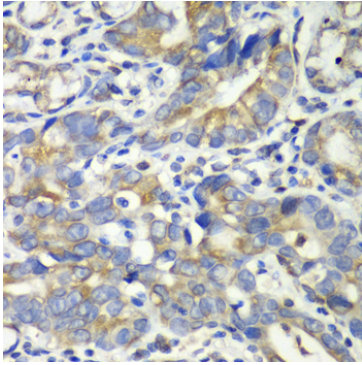
WB	1:500 - 1:2000
IHC	1:50 - 1:200
IF	1:50 - 1:200



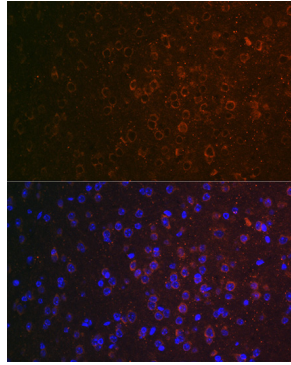
Western blot analysis of extracts of various cell lines, using ABAT Polyclonal Antibody (A5299) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 3s.



Western blot analysis of extracts of HepG2 cells, using ABAT Polyclonal Antibody (A5299) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



Immunohistochemistry of paraffin-embedded human gastric cancer using ABAT antibody (A5299) at dilution of 1:100 (40x lens).



Immunofluorescence analysis of mouse brain using ABAT Rabbit pAb (A5299) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.