

Anti-ABAT/GABA-T antibody ab152134

[1 References](#) [5 Images](#)

Overview

Product name	Anti-ABAT/GABA-T antibody
Description	Rabbit polyclonal to ABAT/GABA-T
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment within Human ABAT/GABA-T. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. Centre region Database link: P80404
Positive control	SK-N-SH, Mouse brain and Rat brain whole cell lysates; HepG2 cells; U373 xenograft.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 79.99% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab152134 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 56 kDa.
IHC-P		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.

Target

Function

Catalyzes the conversion of gamma-aminobutyrate and L-beta-aminoisobutyrate to succinate semialdehyde and methylmalonate semialdehyde, respectively. Can also convert delta-aminovalerate and beta-alanine.

Tissue specificity

Liver > pancreas > brain > kidney > heart > placenta.

Involvement in disease

Defects in ABAT are a cause of gamma-aminobutyrate transaminase deficiency (GABA-AT deficiency) [MIM:613163]. The phenotype of this deficiency includes psychomotor retardation, hypotonia, hyperreflexia, lethargy, refractory seizures, and EEG abnormalities.

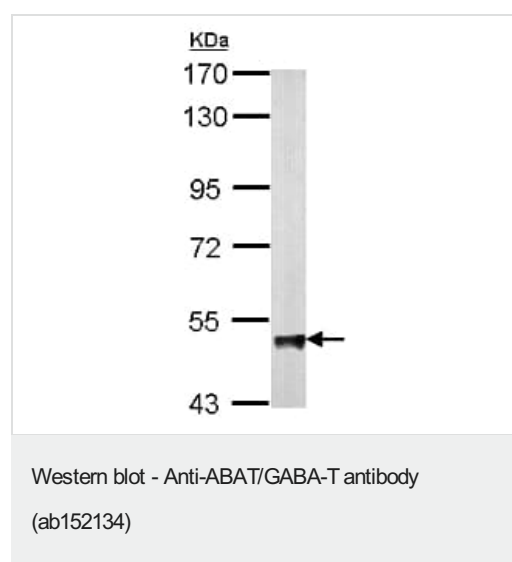
Sequence similarities

Belongs to the class-III pyridoxal-phosphate-dependent aminotransferase family.

Cellular localization

Mitochondrion matrix.

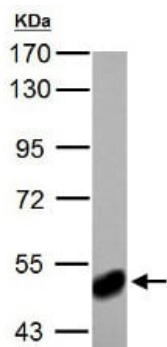
Images



Anti-ABAT/GABA-T antibody (ab152134) at 1/5000 dilution +
Mouse brain whole cell lysate at 20 µg

Predicted band size: 56 kDa

7.5% SDS PAGE

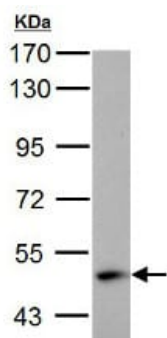


Western blot - Anti-ABAT/GABA-T antibody
(ab152134)

Anti-ABAT/GABA-T antibody (ab152134) at 1/1000 dilution + Rat brain whole cell lysate at 50 μ g

Predicted band size: 56 kDa

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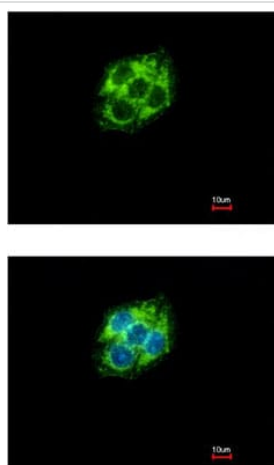


Western blot - Anti-ABAT/GABA-T antibody
(ab152134)

Anti-ABAT/GABA-T antibody (ab152134) at 1/1000 dilution + SK-N-SH whole cell lysate at 30 μ g

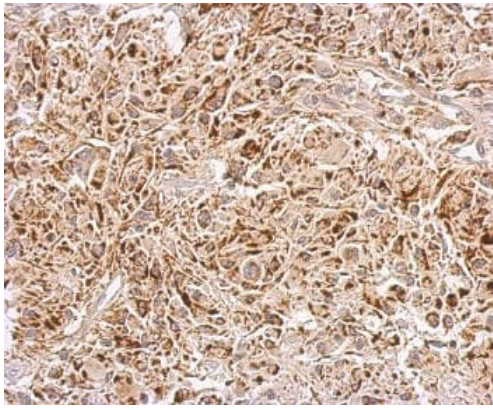
Predicted band size: 56 kDa

7.5% SDS PAGE



Immunocytochemistry/ Immunofluorescence - Anti-ABAT/GABA-T antibody (ab152134)

Immunofluorescent analysis of methanol-fixed HepG2 cells labeling ABAT/GABA-T with ab152134 at 1/500 dilution. Lower panel co-stained with Hoechst 33342.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ABAT/GABA-T antibody (ab152134)

Immunohistochemical analysis of paraffin-embedded U373 xenograft labeling ABAT/GABA-T with ab152134 at 1/500 dilution.

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