

Anti-ABAT/GABA-T antibody [EPR4433] ab108249

重组 RabMAb

★★★★★ [2 Abreviews](#) [8 References](#) [8 图像](#)

概述

产品名称	Anti-ABAT/GABA-T抗体[EPR4433]
描述	兔单克隆抗体[EPR4433] to ABAT/GABA-T
宿主	Rabbit
特异性	Mouse cross reactivity tested by western blot and IHC. Rat cross reactivity tested by western blot only.
经测试应用	适用于: WB, IP, IHC-P 不适用于: Flow Cyt or ICC/IF
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	HepG2 cell lysate, SH-SY5Y cell lysae, Human fetal liver tissue lysate, rat brain tissue lysate, rat kidney tissue lysate, mouse brain tissue lysate, Human liver tissue.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号 EPR4433

同种型 IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab108249于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (2)	1/10000 - 1/50000. Predicted molecular weight: 56 kDa.
IP		1/10 - 1/100.
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See IHC antigen retrieval protocols . Antigen retrieval is recommended For unpurified use at 1/250 - 1/500 dilution.

应用说明 Is unsuitable for Flow Cyt or ICC/IF.

靶标

功能 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.

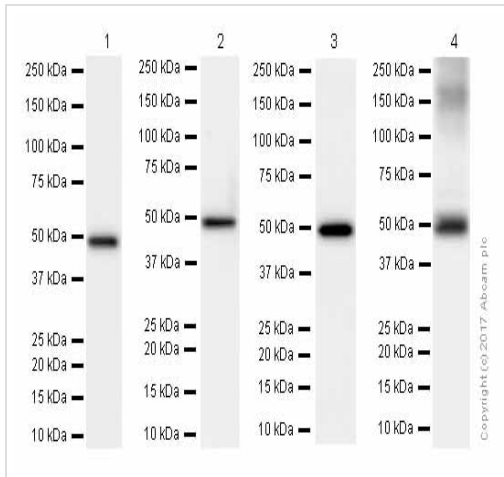
组织特异性 Liver > pancreas > brain > kidney > heart > placenta.

疾病相关 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.

序列相似性 Belongs to the class-III pyridoxal-phosphate-dependent aminotransferase family.

细胞定位 Mitochondrion matrix.

图片



Western blot - Anti-ABAT/GABA-T antibody [EPR4433] (ab108249)

All lanes : Anti-ABAT/GABA-T antibody [EPR4433] (ab108249) at 1/10000 dilution (Purified)

Lane 1 : HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates with 5% NFDM /TBST

Lane 2 : SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates with 5% NFDM /TBST

Lane 3 : Mouse brain lysates with 5% NFDM /TBST

Lane 4 : Rat brain lysates with 5% NFDM /TBST

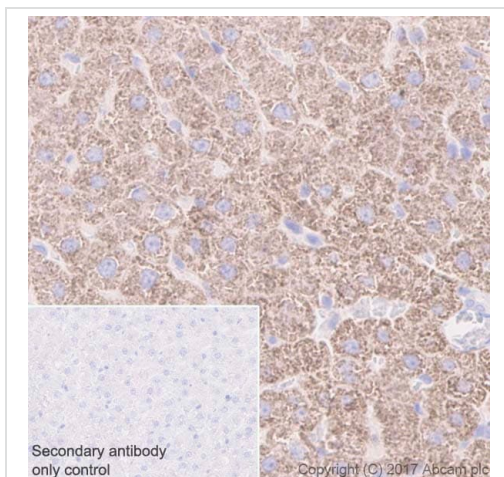
Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

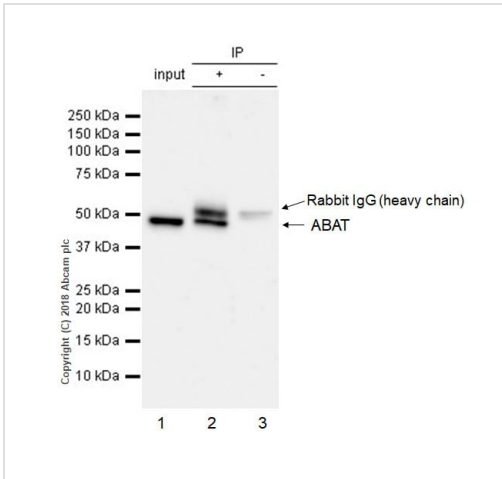
Predicted band size: 56 kDa

Observed band size: 50 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ABAT/GABA-T antibody [EPR4433] (ab108249)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat liver tissue sections labeling ABAT/GABA-T with Purified ab108249 at 1:1000 dilution (0.9 µg/ml). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0)



Immunoprecipitation - Anti-ABAT/GABA-T antibody
[EPR4433] (ab108249)

ab108249 (purified) at 1:40 dilution (2µg) immunoprecipitating ABAT/GABA-T in HepG2 whole cell lysate.

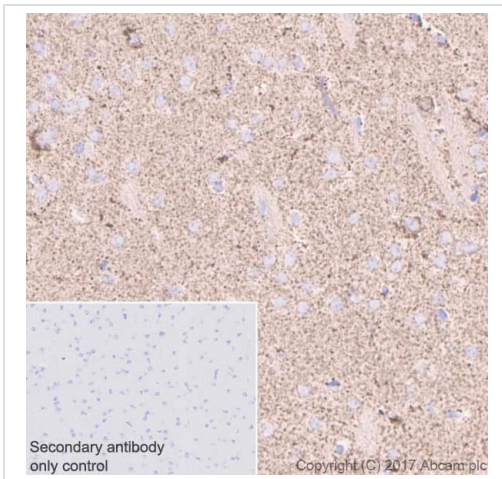
Lane 1 (input): HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate 10µg

Lane 2 (+): ab108249 & HepG2 whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab108249 in HepG2 whole cell lysate

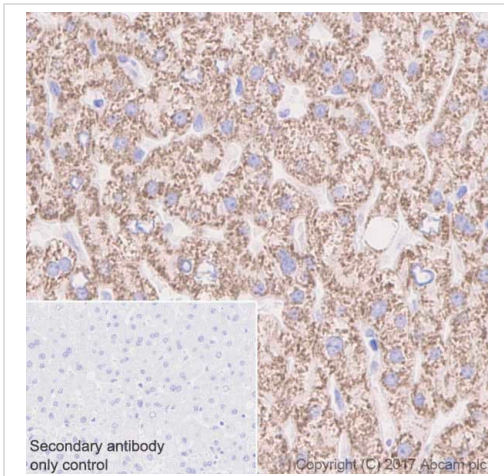
For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDm/TBST.



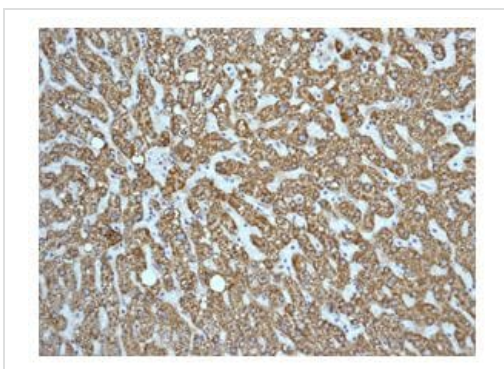
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ABAT/GABA-T antibody
[EPR4433] (ab108249)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse cerebrum tissue sections labeling ABAT/GABA-T with Purified ab108249 at 1:1000 dilution (0.9 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0)



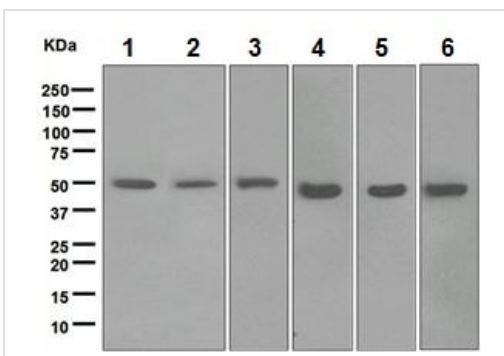
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ABAT/GABA-T antibody [EPR4433] (ab108249)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human liver tissue sections labeling ABAT/GABA-T with Purified ab108249 at 1:1000 dilution (0.9 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ABAT/GABA-T antibody [EPR4433] (ab108249)

Unpurified ab108249, at 1/250 dilution, staining ABAT/GABA-T in Human liver tissue by immunohistochemistry.



Western blot - Anti-ABAT/GABA-T antibody [EPR4433] (ab108249)

All lanes : Anti-ABAT/GABA-T antibody [EPR4433] (ab108249) (unpurified)

Lane 1 : HepG2 cell lysate

Lane 2 : SH-SY5Y cell lysate

Lane 3 : Human fetal liver tissue lysate

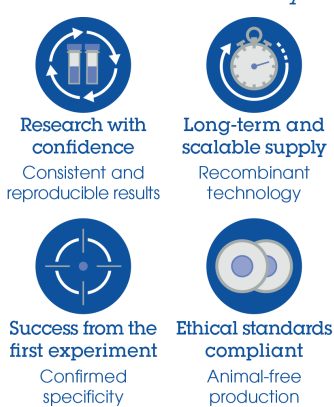
Lane 4 : rat brain tissue lysate

Lane 5 : rat kidney tissue lysate

Lane 6 : mouse brain tissue lysate

Predicted band size: 56 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-ABAT/GABA-T antibody [EPR4433] (ab108249)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors