

Anti-OAT Antibody (N-term)

Catalog Number: A01126-1

About OAT

OAT is the mitochondrial enzyme ornithine aminotransferase, which is a key enzyme in the pathway that converts arginine and ornithine into the major excitatory and inhibitory neurotransmitters glutamate and GABA.

Overview

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| Product Name | Anti-OAT Antibody (N-term) |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-OAT Antibody (N-term) (Catalog # A01126-1). Tested in WB, IF, Flow Cytometry, IHC-P application(s). This antibody reacts with Human, Mouse, Rat. |
| Application | Flow Cytometry, IF, IHC-P, WB |
| Clonality | Polyclonal |
| Formulation | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. |
| Storage Instructions | Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Host | Rabbit |
| Uniprot ID | P04181 |

Technical Details

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| Immunogen | This OAT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 27-55 amino acids from the N-terminal region of human OAT. |
| Predicted Reactive Species | Bovine |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P). |
| Cross Reactivity | No cross reactivity with other proteins. |
| Isotype | Rabbit IgG |
| Form | Liquid |
| Purification | This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Suggested Dilutions | Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. |

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

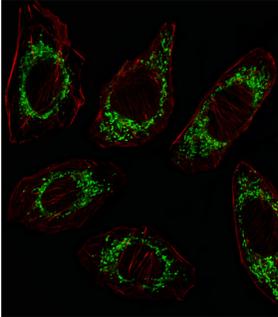
IF: 1:10-1:50

WB: 1:1000

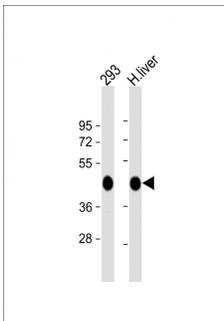
IHC-P: 1:10-1:50

FC: 1:10-1:50

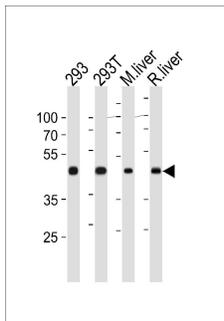
Anti-OAT Antibody (N-term) (A01126-1) Images



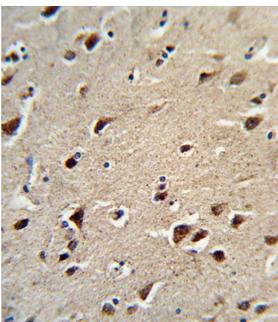
Fluorescent image of A549 cell stained with OAT Antibody (N-term). A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with OAT primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin at 37°C. OAT immunoreactivity is localized to Mitochondrion significantly.



All lanes : Anti-OAT Antibody (N-term) at 1:1000 dilution
Lane 1: 293 whole cell lysate
Lane 2: human liver lysate
Lysates/proteins at 20 µg per lane.
Secondary
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 49 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

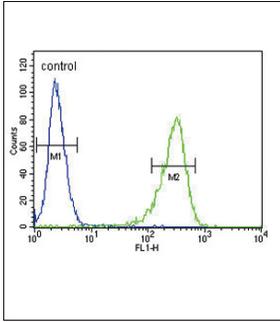


OAT Antibody (N-term) (Cat. #A01126-1) western blot analysis in 293, 293T cell line, mouse liver and rat liver tissue lysates (35µg/lane). This demonstrates the OAT antibody detected the OAT protein (arrow).



Formalin-fixed and paraffin-embedded human brain tissue reacted with OAT Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

OAT Antibody (N-term) (Cat. #A01126-1) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



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