BOSTER BIOLOGICAL TECHNOLOGY
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888-466-3604 | support@bosterbio.com | www.bosterbio.com

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.

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Overview

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

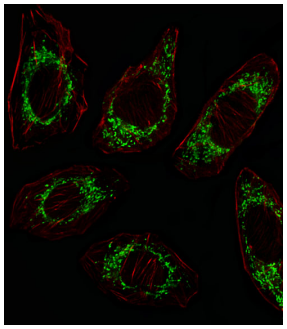
Immunogen	This OAT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 27-55 amino acids from the N-terminal region of human OAT.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (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.

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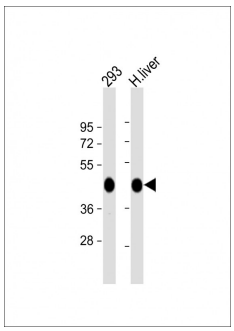
Isotype	Rabbit IgG
Form	Liquid
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Suggested Dilutions	IF: 1:10-1:50 WB: 1:1000 IHC-P: 1:10-1:50 FC: 1:10-1:50

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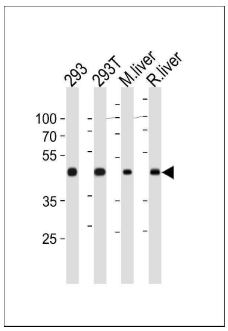
Anti-OAT Antibody (N-term) (A01126-1) Images



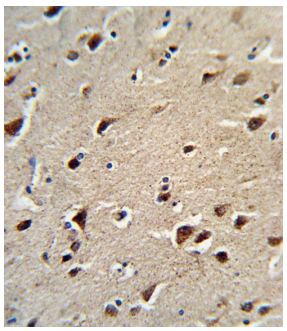
Fluorescent image of A549 cell stained with OAT Antibody (N-term). A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0. 1%, 10 min), then incubated with OAT primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (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 dilutionLane 1: 293 whole cell lysateLane 2: human liver lysateLysates/proteins at 20 µg per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 49 kDaBlocking/Dilution buffer: 5% NFDM/TBST.



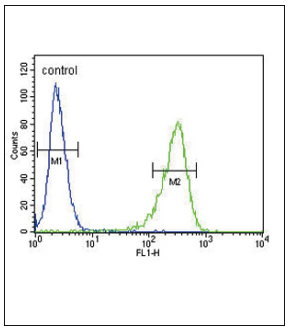
OAT Antibody (N-term) (Cat. #A01126-1) western blot analysis in 293, 293T cell line ,mouse liver and rat liver tissue lysates (35ug/lane). This demonstrates the OAT antibody detected the OAT protein (arrow).



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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Anti-OAT Antibody (N-term)

For Research Use Only. Not for use in diagnostic procedures.