10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-OAT Antibody

Catalog # AP51811

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P04181
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48535

Additional Information

Gene ID	4942
Other Names	Ornithine aminotransferase mitochondrial; Ornithine delta-aminotransferase; Ornithine--oxo-acid aminotransferase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human OAT. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

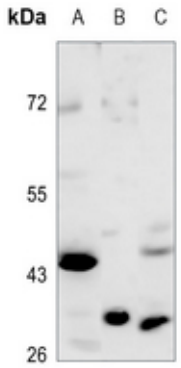
Protein Information

Name	OAT
Function	Catalyzes the reversible interconversion of L-ornithine and 2-oxoglutarate to L-glutamate semialdehyde and L-glutamate.
Cellular Location	Mitochondrion matrix

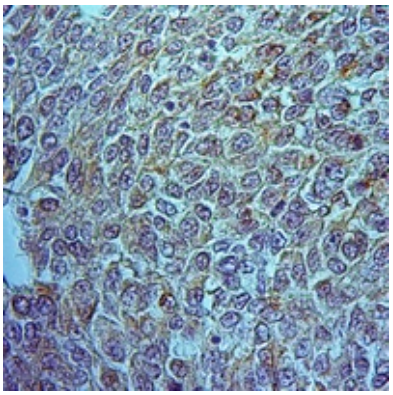
References

Inana G.,et al.Proc. Natl. Acad. Sci. U.S.A. 83:1203-1207(1986).
Ramesh V.,et al.DNA 5:493-501(1986).
Kobayashi T.,et al.FEBS Lett. 255:300-304(1989).
Mitchell G.A.,et al.J. Biol. Chem. 263:14288-14295(1988).
Zintz C.B.,et al.Exp. Eye Res. 50:759-770(1990).

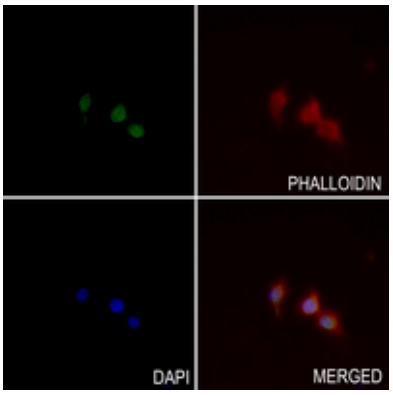
Images



Western blot analysis of OAT expression in HEK293T (A), mouse kidney (B), rat kidney (C) whole cell lysates. (Predicted band size: 48 kD; Observed band size: 48; 32 kD)



Immunohistochemical analysis of OAT staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of OAT staining in RAW264.7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).