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Product datasheet for AM09362PU-N

ornithine aminotransferase (OAT) Mouse Monoclonal Antibody [Clone ID: AT23A2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AT23A2
Applications:	ELISA, FC, IF, WB
Recommended Dilution:	**ELISA.** **Western blot** (1/250-1/1000). **Flow Cytometry.** **Immunofluorescence** (1/250-1/500).
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human OAT (33-439aa) purified from E. coli
Specificity:	The antibody recognizes Human and Mouse OAT. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ornithine aminotransferase
Database Link:	Entrez Gene 18242 MouseEntrez Gene 4942 Human P04181

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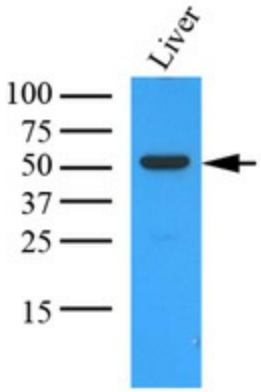
Background: OAT is a 49-kDa nucleus-encoded protein imported into mitochondria to give the mature 48-kDa OAT polypeptide. It has been described in humans, animals, insects, plants and microorganisms. Especially OAT have sex-differential expression in the mouse kidney. OAT plays crucial physiological roles in amino acid metabolism. OAT shows a large structural and mechanistic similarity to other enzymes from the subgroup III of aminotransferases, which transfer an amino group from a carbon atom that does not carry a carboxyl function. OAT is essential for nitrogen recycling from arginine but not for the stress-induced proline accumulation.

Synonyms: Ornithine aminotransferase mitochondrial

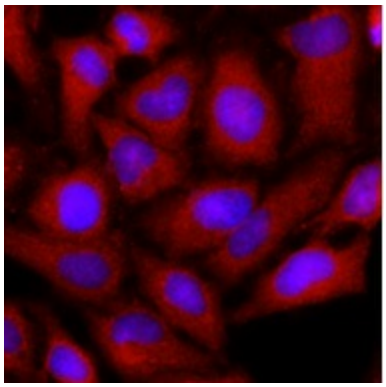
Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

Product images:



Western blot analysis: Tissue lysates of mouse liver (35 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human OAT (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Immunofluorescence of human HeLa cells stained with monoclonal anti-human OAT anitbody (1:500) with Texas Red (Red). Nucleus was stained by Hoechst 33342 (Blue).