

Mouse anti-Human, Mouse OAT Monoclonal Antibody | anti-OAT antibody

OAT antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48078	Mouse	Human, Mouse	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

OAT; Monoclonal Antibody; OAT antibody; ornithine aminotransferase precursor; DKFZp781A11155; HOGA; OATASE; ornithine aminotransferase precursor EC 2.6.1.13; ornithine aminotransferase (gyrate atrophy); Ornithine aminotransferase; mitochondrial precursor; Ornithine oxo-acid aminotransferase; Ornithine--oxo-acid aminotransferase.; anti-OAT antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	AT23A2
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	439
Applicable Applications for anti-OAT antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human OAT (33-439aa) purified from E Coli
Clone Note	Anti-human OAT mAb, clone AT23A2, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human OAT protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence of human HeLa cells stained with monoclonal anti-human OAT antibody (1:500) with Texas Red (Red). Nucleus was stained by Hoechst 33342 (Blue). ICC/IF analysis of OAT in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human OAT antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

Tissue lysates of mouse liver (35ug) 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. The Cell and tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human OAT antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : OAT recombinant protein (20ng) Lane 2. : 293T cell lysate Lane 3. : Brain tissue lysate

ADDITIONAL INFORMATION

Related Product Information for anti-OAT antibody	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.
Product Categories/Family for anti-OAT antibody	Neuroscience
References	Stranska J, et al. (2008) Plant Signal Behav, 3 (11):929-35.; Canas RA, et al. (2008) Plant Physiol, 148 (1):77-88.; Levillain O, et al. (2007) Am J Physiol Renal Physiol, 292 (3):F1016-27.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557809
NCBI GeneID	4942
NCBI Accession #	NP_000265
NCBI GenBank Nucleotide #	NM_000274.3
UniProt Accession #	P04181; Q16068; Q16069; Q68CS0; Q6IAV9; Q9UD03; D3DRF0
Molecular Weight	32,853 Da
NCBI Official Full Name	ornithine aminotransferase, mitochondrial isoform 1
NCBI Official Synonym Full Names	ornithine aminotransferase
NCBI Official Symbol	OAT
NCBI Official Synonym Symbols	OKT; GACR; HOGA; OATASE
NCBI Protein Information	ornithine aminotransferase, mitochondrial
UniProt Protein Name	Ornithine aminotransferase, mitochondrial
UniProt Gene Name	OAT

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