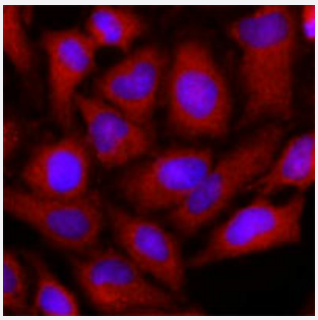
OAT monoclonal antibody, clone AT23A2

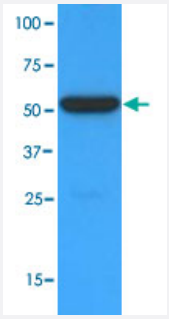
Catalog # MAB8480 Size 100 uL

Applications



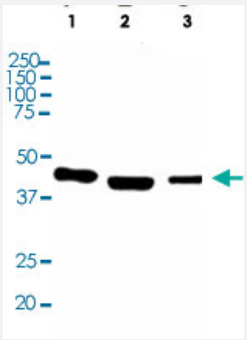
Immunofluorescence

Immunofluorescence of human HeLa cells stained with OAT monoclonal antibody, clone AT23A2 (Cat # MAB8480) (1 : 500) with Texas Red (Red). Nucleus was stained by Hoechst 33342 (Blue).



Western Blot (Tissue lysate)

Tissue lysates of mouse liver (35 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with OAT monoclonal antibody, clone AT23A2 (Cat # MAB8480) (1 : 1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Western Blot

Western blot analysis of Lane 1: OAT recombinant protein, Lane 2: 293T cell lysate, Lane 3: Mouse brain tissue lysate.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant OAT.
Immunogen	Recombinant protein corresponding to amino acids 33-439 of human OAT.

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Host	Mouse
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein G purification
Isotype	IgG1, kappa
Recommend Usage	ELISA Immunocytochemistry Immunofluorescence Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence

  Immunofluorescence of human HeLa cells stained with OAT monoclonal antibody, clone AT23A2 (Cat # MAB8480) (1 : 500) with Texas Red (Red). Nucleus was stained by Hoechst 33342 (Blue).

- Immunocytochemistry

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Tissue lysate)

  Tissue lysates of mouse liver (35 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with OAT monoclonal antibody, clone AT23A2 (Cat # MAB8480) (1 : 1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

- Western Blot

  Western blot analysis of Lane 1: OAT recombinant protein, Lane 2: 293T cell lysate, Lane 3: Mouse brain tissue lysate.

Gene Info — OAT

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Entrez GeneID	4942
Protein Accession#	NP_000265
Gene Name	OAT
Gene Alias	DKFZp781A11155, HOGA
Gene Description	ornithine aminotransferase (gyrate atrophy)
Omim ID	258870
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the mitochondrial enzyme ornithine aminotransferase, which is a key enzyme i s the pathway that converts arginine and ornithine into the major excitatory and inhibitory neurotran smitters glutamate and GABA. Mutations that result in a deficiency of this enzyme cause the autos omal recessive eye disease Gyrate Atrophy. [provided by RefSeq
Other Designations	OTTHUMP00000020690|ornithine aminotransferase

Publication Reference

- Ornithine delta-aminotransferase: An enzyme implicated in salt tolerance in higher plants.

  Stranska J, Kopecny D, Tylichova M, Snegaroff J, Sebela M.

  Plant Signaling & Behavior 2008 Nov; 3(11):929.

  Application: WB, Plants, Nicotiana plumbaginifolia plants

- Molecular and functional analyses support a role of Ornithine-{delta}-aminotransferase in the provision of glutamate for glutamine biosynthesis during pine germination.

  Canas RA, Villalobos DP, Diaz-Moreno SM, Canovas FM, Canton FR.

  Plant Physiology 2008 Sep; 148(1):77.

- Sex-differential expression of ornithine aminotransferase in the mouse kidney.

  Levillain O, Ventura G, Dechaud H, Hobeika M, Meseguer A, Moinard C, Cynober L.

  American Journal of Physiology. Renal Physiology 2007 Mar; 292(3):F1016.

  Application: WB-Ti, Mouse, Mouse kidney

Pathway

- Arginine and proline metabolism

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- Metabolic pathways

Disease

- Hypercholesterolemia

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