ARG56993
anti-OAT antibody [23A2]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [23A2] recognizes OAT
Tested Reactivity	Hu, Ms
Tested Application	FACS, ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	23A2
Isotype	IgG1, kappa
Target Name	OAT
Species	Human
Immunogen	Recombinant fragment around aa. 33-439 of Human OAT.
Conjugation	Un-conjugated
Alternate Names	OATASE; OKT; Ornithine aminotransferase, mitochondrial; Ornithine--oxo-acid aminotransferase; GACR; HOGA; Ornithine delta-aminotransferase; EC 2.6.1.13

Application Instructions

Application table

Application	Dilution
FACS	Assay-dependent
ICC/IF	Assay-dependent
WB	1:250 - 1:500

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

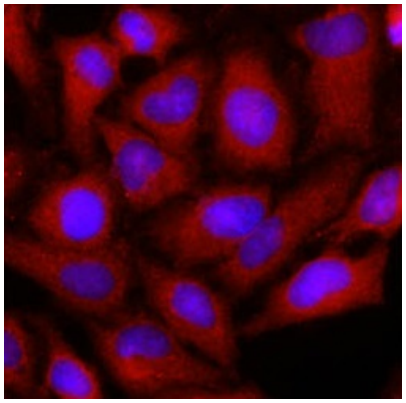
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 18242 Mouse GeneID: 4942 Human Swiss-port # P04181 Human Swiss-port # P29758 Mouse
Gene Symbol	OAT
Gene Full Name	ornithine aminotransferase
Background	This gene encodes 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. Mutations that result in a deficiency of this enzyme cause the autosomal recessive eye disease Gyrate Atrophy. Alternatively spliced transcript variants encoding different isoforms have been described. Related pseudogenes have been defined on the X chromosome. [provided by RefSeq, Jan 2010]
Calculated Mw	49 kDa

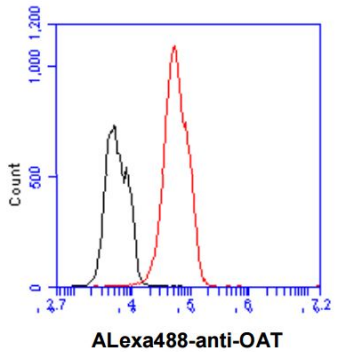
Images



ARG56993 anti-OAT antibody [23A2] ICC/IF image

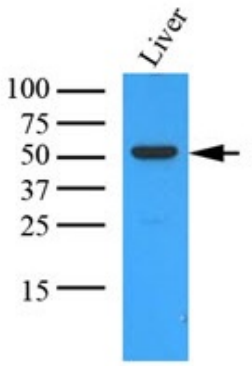
Immunoflorescense: HeLa cells stained with ARG56993 anti-OAT antibody [23A2] 1:500 (Red).

Hoechst 33342 (Blue) for nucleus staining.



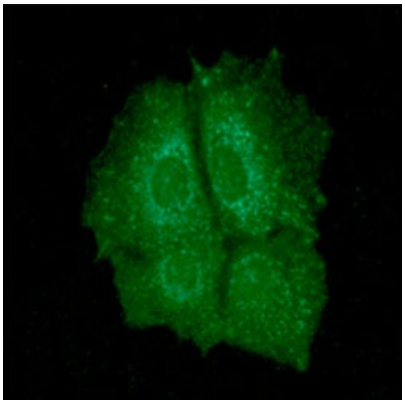
ARG56993 anti-OAT antibody [23A2] FACS image

Flow Cytometry: Hep3B cell line stained with ARG56993 anti-OAT antibody [23A2] at 2-5 µg for 1x10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was Mouse IgG (black line).



ARG56993 anti-OAT antibody [23A2] WB image

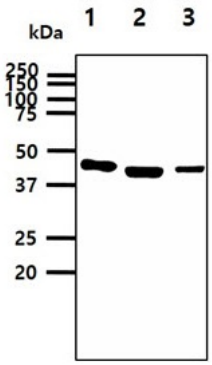
Western blot: 35 µg of Mouse liver stained with ARG56993 anti-OAT antibody [23A2] at 1:1000.



ARG56993 anti-OAT antibody [23A2] ICC/IF image

Immunoflorescense: Hep3B cell line stained with ARG56993 anti-OAT antibody [23A2] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



ARG56993 anti-OAT antibody [23A2] WB image

Western blot: 1) 20 ng of OAT recombinant protein, 2) 40 ug of 293T cell lysate, and 3) 40 ug of Brain tissue lysate stained with ARG56993 anti-OAT antibody [23A2] at 1:1000.