ARG42231
anti-NAT8L antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes NAT8L
Tested Reactivity	Hu, Ms
Predict Reactivity	Cow, Rat, Dog
Tested Application	FACS, ICC/IF
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	NAT8L
Species	Mouse
Immunogen	Synthetic peptide around the internal region of Mouse NAT8L. (C-SVDSRFRGKGIAK) (NP_001001985.3)
Conjugation	Un-conjugated
Alternate Names	NAT8-LIKE; N-acetyltransferase 8-like protein; NACED; Camello-like protein 3; NAA synthetase; EC 2.3.1.17; CML3; N-acetylaspartate synthetase

Application Instructions

Application table

Application	Dilution
FACS	10 µg/ml
ICC/IF	10 µg/ml

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

Properties

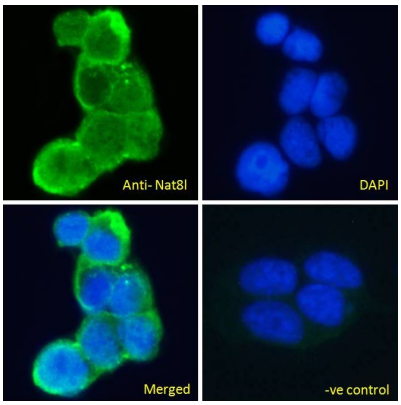
Form	Liquid
Purification	Affinity purified
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. 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

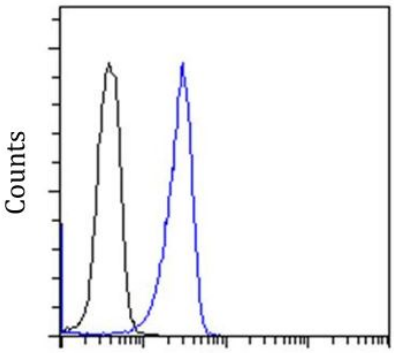
Gene Symbol	NAT8L
Gene Full Name	N-acetyltransferase 8-like (GCN5-related, putative)
Background	This gene encodes a single-pass membrane protein, which contains a conserved sequence of the GCN5 or NAT superfamily of N-acetyltransferases and is a member of the N-acyltransferase (NAT) superfamily. This protein is a neuron-specific protein and is the N-acetylaspartate (NAA) biosynthetic enzyme, catalyzing the NAA synthesis from L-aspartate and acetyl-CoA. NAA is a major storage and transport form of acetyl coenzyme A specific to the nervous system. The gene mutation results in primary NAA deficiency (hypoacetylaspartia). [provided by RefSeq, Dec 2010]
Function	Plays a role in the regulation of lipogenesis by producing N-acetylaspartate acid (NAA), a brain-specific metabolite. NAA occurs in high concentration in brain and its hydrolysis plays a significant part in the maintenance of intact white matter. Promotes dopamine uptake by regulating TNF-alpha expression. Attenuates methamphetamine-induced inhibition of dopamine uptake. [UniProt]
Calculated Mw	33 kDa
Cellular Localization	Cytoplasm. Membrane; Single-pass membrane protein. Microsome membrane; Single-pass membrane protein. Mitochondrion membrane; Single-pass membrane protein. Rough endoplasmic reticulum membrane; Single-pass membrane protein. Note=Its enzymatic activity contribution is quantitatively larger in mitochondrial compartment than in extramitochondrial compartment. [UniProt]

Images



ARG42231 anti-NAT8L antibody ICC/IF image

Immunofluorescence: Paraformaldehyde-fixed HEK293 cells, permeabilized with 0.15% Triton. Cells were stained with ARG42231 anti-NAT8L antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized Goat IgG at 10 µg/ml dilution.



ARG42231 anti-NAT8L antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed Kelly cells, permeabilized with 0.5% Triton. Cells were stained with ARG42231 anti-NAT8L antibody (blue line) at 10 µg/ml dilution for 1 hour, followed by incubation with Alexa Fluor® 488 labelled secondary antibody. IgG control: Unimmunized Goat IgG (black line) followed by Alexa Fluor® 488 secondary antibody.