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Rabbit Anti-NAT8L antibody

SL11593R

Product Name:	NAT8L
Chinese Name:	N-乙酰转移酶8样蛋白抗体
Alias:	Camello-like protein 3; CML3; Hcml3; N acetyltransferase 8 like (GCN5 related, putative); N-acetylaspartate synthetase; N-acetyltransferase 8-like protein; NAA synthetase; NAT8 like; Nat8l; NAT8L_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	33kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NAT8L:201-302/302
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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).

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.

Subcellular Location:
Cytoplasm. Membrane; Single-pass membrane protein (Potential). Microsome membrane; Single-pass membrane protein (By similarity). Mitochondrion membrane; Single-pass membrane protein. Rough endoplasmic reticulum membrane; Single-pass membrane protein (By similarity). Note=Its enzymatic activity contribution is quantitatively larger in mitochondrial compartment than in extramitochondrial compartment.

Tissue Specificity:
Expressed in brain.

DISEASE:
Defects in NAT8L are the cause of N-acetylaspartate deficiency (NACED) [MIM:614063]. A metabolic disorder resulting in truncal ataxia, marked developmental delay, seizures, and secondary microcephaly.

Similarity:
Belongs to the camello family.
Contains 1 N-acetyltransferase domain.

SWISS:
Q8N9F0

Gene ID:
339983

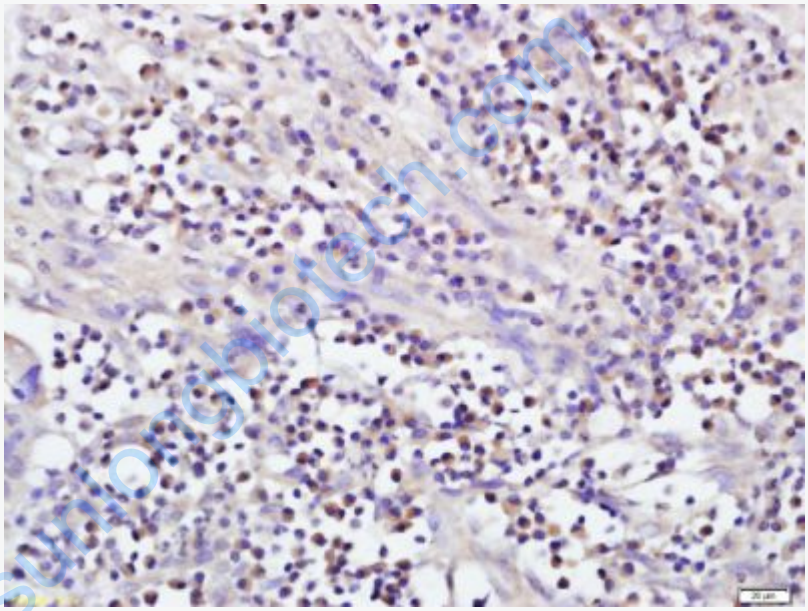
Database links:

Entrez Gene: 339983Human

Entrez Gene: 269642Mouse

Omim: 610647Human

SwissProt: Q8N9F0Human

	SwissProt: Q3UGX3Mouse Unigene: 318529Human Unigene: 274610Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Tissue/cell: human stomach carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-NAT8L Polyclonal Antibody, Unconjugated(SL11593R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and

	DAB(C-0010) staining