

Rabbit NAT8L Polyclonal Antibody | anti-NAT8L antibody

NAT8L Antibody (N-Term)

CATALOG # AAA290623	HOST Rabbit	REACTIVITY HumanPredicted : Mouse, Rat	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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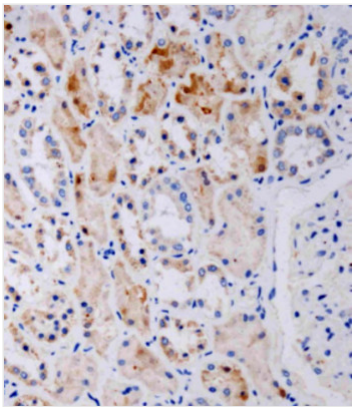
PRODUCT SYNONYMS

NAT8L; Polyclonal Antibody; NAT8L Antibody (N-Term); Purified Rabbit Polyclonal Antibody (Pab); N-acetylaspartate synthetase; NAA synthetase; 2.3.1.17; Camello-like protein 3; N-acetyltransferase 8-like protein; CML3; anti-NAT8L antibody

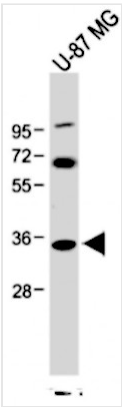
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted : Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	This NAT8L antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 59-93 amino acids from human NAT8L.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Length	302
Applicable Applications for anti-NAT8L antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	Catalyzes the synthesis of N-acetylaspartate acid (NAA) from L-aspartate and acetyl-CoA (PubMed:19524112, PubMed:19807691, PubMed:20385109). Promotes dopamine uptake by regulating TNF-alpha expression (By similarity). Attenuates methamphetamine-induced inhibition of dopamine uptake (PubMed:20385109).
Cellular Location	Cytoplasm. Microsome membrane {ECO:0000250 UniProtKB:D3ZVU9}; Single-pass membrane protein. Mitochondrion membrane; Single-pass membrane protein. Endoplasmic reticulum membrane {ECO:0000250 UniProtKB:Q3UGX3}; Single-pass membrane protein. Note=Its enzymatic activity contribution is quantitatively larger in mitochondrial compartment than in extramitochondrial compartment.
Tissue Location	Expressed in brain
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohiostchemistry)
Immunohistochemical analysis of AP21925A on paraffin-embedded human kidney tissue was performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:250) for 15min at room temperature. Leica Bond Polymer Refine Detection was used as the secondary antibody.



WB (Western Blot)
Anti-NAT8L Antibody (N-Term) at 1:1000 dilution + U-87 MG whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 33 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-NAT8L antibody	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.
Product Categories/Family for anti-NAT8L antibody	Metabolism; Signal Transduction
References	Hillier L.W.,et al.Nature 434:724-731(2005). Brandenberger R.,et al.Nat. Biotechnol. 22:707-716(2004). Ota T.,et al.Nat. Genet. 36:40-45(2004). Popsueva A.E.,et al.Dev. Biol. 234:483-496(2001). Arun P.,et al.Neurochem. Int. 55:219-225(2009).

NCBI AND UNIPROT INFORMATION

NCBI GI #	263192221
NCBI GeneID	339983
NCBI Accession #	NP_848652.2
NCBI GenBank Nucleotide #	NM_178557.3
UniProt Accession #	Q8N9F0; Q3UGX3; D3ZVU9
NCBI Official Full Name	N-acetylaspartate synthetase
NCBI Official Synonym Full Names	N-acetyltransferase 8-like (GCN5-related, putative)
NCBI Official Symbol	NAT8L
NCBI Official Synonym Symbols	CML3; NACED; NAT8-LIKE
NCBI Protein Information	N-acetylaspartate synthetase
UniProt Protein Name	N-acetylaspartate synthetase
UniProt Gene Name	NAT8L
UniProt Synonym Gene Names	CML3; NAA synthetase
UniProt Entry Name	NAT8L_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nat8l-antibody-immunohistochemistry-western-blot-elisa/290623>