

Anti-NAT8 Antibody

Catalog # AP96156

Product Information

Application	WB, IHC
Primary Accession	Q9JIV7
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25638

Additional Information

Gene ID	68396
Other Names	CML1; GLA; TSC501; Probable N-acetyltransferase 8; Camello-like protein 1
Target/Specificity	Recombinant full length protein of human NAT8
Dilution	WB~~1/500 - 1/2000 IHC~~1/50 - 1/200
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	Nat8
Synonyms	Cml4
Function	Endoplasmic reticulum (ER)-membrane-bound lysine N- acetyltransferase catalyzing the N6-acetylation of lysine residues in the lumen of the ER in various proteins, including PROM1 and BACE1, using acetyl-CoA as acetyl donor. Thereby, may regulate apoptosis through the acetylation and the regulation of the expression of PROM1. May also regulate amyloid beta-peptide secretion through acetylation of BACE1 and the regulation of its expression in neurons (By similarity). N(6)-lysine acetylation in the ER maintains protein homeostasis and regulates reticulophagy (PubMed:33846551). Alternatively, acetylates the free alpha-amino group of cysteine S-conjugates to form mercapturic acids. This is the final step in a major route for detoxification of a wide variety of reactive electrophiles which starts with their incorporation into glutathione S-conjugates. The glutathione S- conjugates are then further processed into cysteine S-conjugates and finally mercapturic acids which are water soluble and can be readily excreted in urine or bile (By similarity).

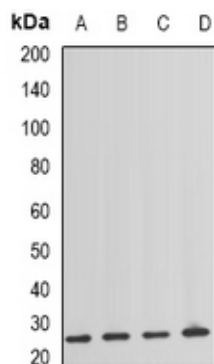
Cellular Location

Endoplasmic reticulum-Golgi intermediate compartment membrane {ECO:0000250|UniProtKB:Q9UHE5}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q9UHE5}. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9UHE5}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q9UHE5}

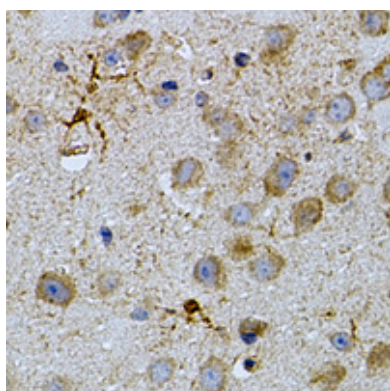
Tissue Location

Expressed in brain (at protein level).

Images



Western blot analysis of NAT8 expression in HEK293T (A), mouse spleen (B), mouse lung (C), rat kidney (D) whole cell lysates. (Predicted band size: 25 kD; Observed band size: 26 kD)



Immunohistochemical analysis of NAT8 staining in mouse brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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