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NAT8 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP4957c

Specification

NAT8 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9UHE5

NAT8 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 9027

Other Names
N-acetyltransferase 8, 231-, Acetyltransferase 2, ATase2, Camello-like protein 1, Cysteinyl-conjugate N-acetyltransferase, CCNAT, NAT8 (HGNC:18069)

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NAT8 Antibody (Center) Blocking Peptide - Protein Information

Name NAT8 (HGNC:18069)

Function
Acetylates the free alpha-amino group of cysteine S- conjugates to form mercapturic acids (PubMed:20392701). 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. Alternatively, may have a lysine N-acetyltransferase activity catalyzing peptidyl-lysine N6-acetylation of various proteins. Thereby, may regulate apoptosis through the acetylation and the regulation of the expression of PROM1 (PubMed:24556617). May also regulate amyloid beta-peptide secretion through acetylation of BACE1 and the regulation of its expression in neurons (PubMed:19011241).

Cellular Location
Endoplasmic reticulum-Golgi intermediate compartment membrane; Single-pass type II membrane

protein. Endoplasmic reticulum membrane; Single-pass type II membrane protein

Tissue Location
Preferentially expressed in liver and kidney. Also detected in brain (at protein level).

NAT8 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

NAT8 Antibody (Center) Blocking Peptide - Images

NAT8 Antibody (Center) Blocking Peptide - Background

This protein, isolated using the differential display method to detect tissue-specific genes, is specifically expressed in kidney and liver. The encoded protein shows amino acid sequence similarity to N-acetyltransferases. A similar protein in Xenopus affects cell adhesion and gastrulation movements, and may be localized in the secretory pathway. A highly similar paralog is found in a cluster with this gene.

NAT8 Antibody (Center) Blocking Peptide - References

Ko, M.H., et al. J. Biol. Chem. 284(4):2482-2492(2009)Juhanson, P., et al. BMC Med. Genet. 9, 25 (2008) Barrios-Rodiles, M., et al. Science 307(5715):1621-1625(2005)