

**NAT1 Antibody (center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP13168c****Specification**

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**NAT1 Antibody (center) Blocking Peptide - Product Information**Primary Accession [P18440](#)**NAT1 Antibody (center) Blocking Peptide - Additional Information****Gene ID 9****Other Names**

Arylamine N-acetyltransferase 1, Arylamide acetylase 1, Monomorphic arylamine N-acetyltransferase, MNAT, N-acetyltransferase type 1, NAT-1, NAT1, AAC1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13168c was selected from the center region of NAT1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**NAT1 Antibody (center) Blocking Peptide - Protein Information****Name** NAT1**Synonyms** AAC1**Function**

Participates in the detoxification of a plethora of hydrazine and arylamine drugs. Catalyzes the N- or O-acetylation of various arylamine and heterocyclic amine substrates and is able to bioactivate several known carcinogens.

**Cellular Location**

Cytoplasm.

**NAT1 Antibody (center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **NAT1 Antibody (center) Blocking Peptide - Images**

#### **NAT1 Antibody (center) Blocking Peptide - Background**

This gene is one of two arylamine N-acetyltransferase(NAT) genes in the human genome, and is orthologous to the mouse and rat Nat2 genes. The enzyme encoded by this gene catalyzes the transfer of an acetyl group from acetyl-CoA to various arylamine and hydrazine substrates. This enzyme helps metabolize drugs and other xenobiotics, and functions in folate catabolism. Multiple transcript variants encoding different isoforms have been found for this gene.

#### **NAT1 Antibody (center) Blocking Peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) Minchin, R.F., et al. Int. J. Biochem. Cell Biol. 39(11):1999-2005(2007) Barker, D.F., et al. Pharmacogenet. Genomics 16(7):515-525(2006) Boukouvala, S., et al. Basic Clin. Pharmacol. Toxicol. 96(5):343-351(2005)