

## Rabbit NAT1 Polyclonal Antibody | anti-NAT1 antibody

NAT1 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA326227 | Rabbit | Human, Mouse, Rat | ELISA, Immunohistochemistry, Western Blot |

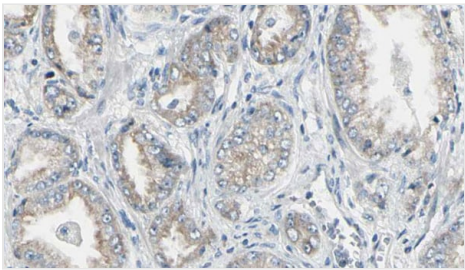
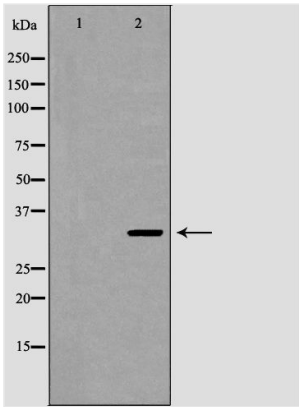
### PRODUCT SYNONYMS

NAT1; Polyclonal Antibody; NAT1 Antibody; AAC1; ARY1\_HUMAN; Arylamide acetylase 1; Arylamine N acetyltransferase 1; Arylamine N-acetyltransferase 1; mNAT; Monomorphic arylamine N acetyltransferase; Monomorphic arylamine N-acetyltransferase; N acetyltransferase type 1; N-acetyltransferase type 1; NAT 1; NAT-1; nat1; NATI; anti-NAT1 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                        |
| Reactivity                                     | Human, Mouse, Rat                                                                             |
| Clonality                                      | Polyclonal                                                                                    |
| Isotype                                        | IgG                                                                                           |
| Specificity                                    | NAT1 antibody detects endogenous levels of total NAT1                                         |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                  | 1mg/ml (varies by lot)                                                                        |
| Sequence Length                                | 290                                                                                           |
| Applicable Applications for anti-NAT1 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                          |
| Immunogen                                      | A synthesized peptide derived from human NAT1                                                 |
| Subcellular Location                           | Cytoplasm.                                                                                    |
| Predicted Cross Reactivity                     | <b>Bovine, Rabbit, Chicken</b>                                                                |
| Similarity                                     | Bovine (90%), Rabbit (100%), Chicken (90%)                                                    |
| Conjugation                                    | Unconjugated                                                                                  |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                             |

IMAGES



**IHC (Immunohistochemistry)**  
AAA326227 at 1/100 staining Human prostate tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

**WB (Western Blot)**  
Western blot analysis of extracts of U937, using NAT1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NAT1 antibody

Description: 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. [provided by RefSeq, Aug 2011]  
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.  
Similarity: Belongs to the arylamine N-acetyltransferase family.

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 42741671                                       |
| NCBI GeneID                      | 9                                              |
| NCBI Accession #                 | NP_000653.3                                    |
| NCBI GenBank Nucleotide #        | NM_000662.7                                    |
| UniProt Accession #              | P18440; O15159; O15300; Q546N1; Q96TE9; A8K4E7 |
| Molecular Weight                 | Observed: 34 kDa<br>Predicted: 34 kDa          |
| NCBI Official Full Name          | arylamine N-acetyltransferase 1 isoform a      |
| NCBI Official Synonym Full Names | N-acetyltransferase 1                          |
| NCBI Official Symbol             | NAT1                                           |
| NCBI Official Synonym Symbols    | AAC1; MNAT; NATI; NAT-1                        |
| NCBI Protein Information         | arylamine N-acetyltransferase 1                |
| UniProt Protein Name             | Arylamine N-acetyltransferase 1                |
| UniProt Gene Name                | <b>NAT1</b>                                    |
| UniProt Synonym Gene Names       | AAC1; MNAT; NAT-1                              |

**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.

