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NAT1 Antibody

Rabbit mAb
Catalog # AP92888

Product Information

Application	WB, IF, FC, ICC
Primary Accession	P18440
Reactivity	Human
Clonality	Monoclonal
Other Names	AAC1; Arylamide acetylase 1; mNAT; N acetyltransferase type 1; nat1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	33899

Additional Information

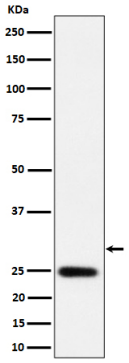
Dilution	WB 1:500~1:2000 ICC/IF 1:50~1:200 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human NAT1
Description	Participates in the detoxification of a plethora of hydrazine and arylamine drugs. Catalyzes the N- or O-acetylation of various arylamine and heterocyclic amine substrates and is able to bioactivate several known carcinogens.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	NAT1
Synonyms	AAC1
Function	Xenobiotic-metabolizing enzyme that catalyzes both N- acetylation (usually detoxification) and O-acetylation (usually bioactivation) of a wide range of species-specific substrates including hydrazines, aromatic amine drugs and aromatic amine carcinogens (Probable) (PubMed:9168895). Transfers an acetyl group from acetyl- coenzyme A to arylamine and N-hydroxyarylamine acceptor substrates (Probable) (PubMed:9168895). Can also transfer an N-acetyl group from an N-hydroxy acetylamine to either N-hydroxyarylamine or arylamine in the absence of acetyl-coenzyme A (PubMed:9168895). Therefore, activates N-hydroxyarylamines to unstable acetoxy intermediates which decompose to electrophiles, bind to DNA, and lead to mutagenesis and carcinogenesis (PubMed:9168895). Plays a significant role in the bioactivation and detoxification of many drugs and carcinogens (Probable) (PubMed:9168895).

Cellular Location Cytoplasm {ECO:0000250|UniProtKB:P50294}.

Images



Western blot analysis of NAT1 expression in LnCaP cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.