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NAT2 Rabbit pAb

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Catalog # AP58059

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P11245
Reactivity	Mouse, Rat
Predicted	Human, Pig, Horse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33571
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PNAT/NAT2
Epitope Specificity	151-250/290
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
SIMILARITY	Belongs to the arylamine N-acetyltransferase family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes an enzyme that functions to both activate and deactivate arylamine and hydrazine drugs and carcinogens. Polymorphisms in this gene are responsible for the N-acetylation polymorphism in which human populations segregate into rapid, intermediate, and slow acetylator phenotypes. Polymorphisms in this gene are also associated with higher incidences of cancer and drug toxicity. A second arylamine N-acetyltransferase gene (NAT1) is located near this gene (NAT2). [provided by RefSeq].

Additional Information

Gene ID	10
Other Names	Arylamine N-acetyltransferase 2, 2.3.1.5, Arylamide acetylase 2, N-acetyltransferase type 2, NAT-2, N-hydroxyarylamine O-acetyltransferase, 2.3.1.118, Polymorphic arylamine N-acetyltransferase, PNAT, NAT2, AAC2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NAT2
Synonyms	AAC2
Function	Catalyzes the N- or O-acetylation of various arylamine and heterocyclic amine substrates (PubMed:12222688, PubMed:7915226). Participates in the detoxification of a plethora of hydrazine and arylamine drugs, and is able to bioactivate several known carcinogens.
Cellular Location	Cytoplasm.

Background

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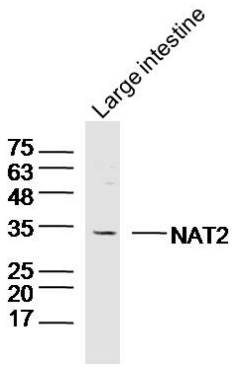
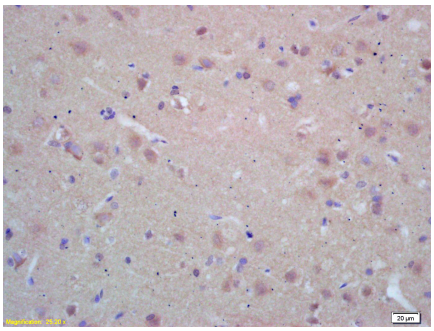
Images



Sample:Large intestine (Mouse)Lysate at 40 ug
Primary: Anti-NAT2(AP58059)at 1/500 dilution
Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution
Predicted band size: 34kD
Observed band size: 34kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-NAT2 Polyclonal Antibody, Unconjugated(AP58059) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining