

For Research Use Only

NAPRT1 Polyclonal antibody

Catalog Number: 13549-1-AP

10 Publications



Basic Information

Catalog Number:

13549-1-AP

Size:

150ul, Concentration: 500 µg/ml by Nanodrop and 260 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4265

GenBank Accession Number:

BC032466

GeneID (NCBI):

93100

Full Name:

nicotinate phosphoribosyltransferase domain containing 1

Calculated MW:

514 aa, 55 kDa

Observed MW:

51 kDa, 56 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB

Applications

Tested Applications:

IP, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : mouse liver tissue, HepG2 cells, mouse kidney tissue, human colon tissue, L02 cells, HEK-293 cells

IP : HEK-293 cells,

Background Information

Nicotinic acid (NA) is a coenzyme in cellular redox reactions, and is an essential component of metabolic pathways in all living cells. NAPRT1 (Nicotinate phosphoribosyltransferase) is essential for increasing cellular NAD levels and, thus, to prevent oxidative stress of cells. NAPRT1 converts Nicotinic acid (NA; niacin) to NA mononucleotide (NaMN), which is then converted to NA adenine dinucleotide (NaAD), and finally to nicotinamide adenine dinucleotide (NAD).

Notable Publications

Author	Pubmed ID	Journal	Application
Jack Mottahedeh	30258629	Cancer Metab	WB
Ya Li	33053398	Metabolism	IF
Hongwei Lv	33171124	Cell Metab	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

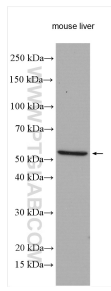
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T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

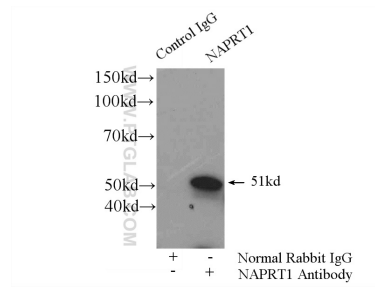
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W: ptglab.com

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Selected Validation Data



Mouse liver tissue were subjected to SDS PAGE followed by western blot with 13549-1-AP (NAPRT1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



IP Result of anti-NAPRT1 (IP:13549-1-AP, 4ug; Detection:13549-1-AP 1:1000) with HEK-293 cells lysate 2800ug.