

# NAPRT1 Polyclonal antibody

Catalog Number: 13549-1-AP

14 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 µg 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, rat

### Positive Controls:

WB: mouse liver tissue, human colon tissue, HEK-293 cells, mouse kidney tissue, L02 cells, HepG2 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          |
| Xinhui Liu      | 34603081  | Front Physiol | WB          |
| Xiaohan Jin     | 36243112  | J Biol Chem   | 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

\*\*\* 20ul sizes contain 0.1% BSA

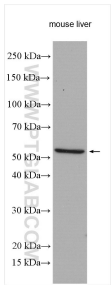
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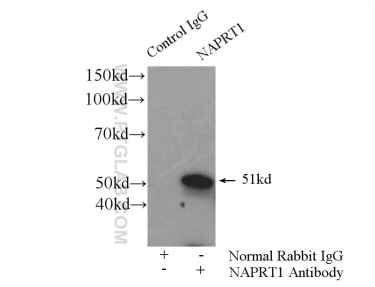
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Selected Validation Data



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.