10320 Camino Santa Fe, Suite G
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# IMPDH1 Antibody (N-term)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP14691a**

## Specification

### IMPDH1 Antibody (N-term) - Product Information

| | |
|---|---|
| Application | **WB, IHC-P,E** |
| Primary Accession | P20839 |
| Other Accession | D3ZLZ7, P50096, Q6GMG5, A0JNA3, NP_001136045.1, NP_899066.1, NP_001096075.1 |
| Reactivity | **Human** |
| Predicted | **Bovine, Zebrafish, Mouse, Rat** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Antigen Region | **84-113** |

### IMPDH1 Antibody (N-term) - Additional Information

**Gene ID** 3614

**Other Names**
Inosine-5'-monophosphate dehydrogenase 1 {ECO:0000255|HAMAP-Rule:MF_03156}, IMP dehydrogenase 1 {ECO:0000255|HAMAP-Rule:MF_03156}, IMPD 1 {ECO:0000255|HAMAP-Rule:MF_03156}, IMPDH 1 {ECO:0000255|HAMAP-Rule:MF_03156}, 111205 {ECO:0000255|HAMAP-Rule:MF_03156}, IMPDH-I, IMPDH1 {ECO:0000255|HAMAP-Rule:MF_03156}, IMPD1

**Target/Specificity**
This IMPDH1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 84-113 amino acids from the N-terminal region of human IMPDH1.

**Dilution**
WB~~1:1000
IHC-P~~1:10~50

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
IMPDH1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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## IMPDH1 Antibody (N-term) - Protein Information

**Name** IMPDH1 {ECO:0000255|HAMAP-Rule:MF_03156}

**Synonyms** IMPD1

**Function** Catalyzes the conversion of inosine 5'-phosphate (IMP) to xanthosine 5'-phosphate (XMP), the first committed and rate-limiting step in the de novo synthesis of guanine nucleotides, and therefore plays an important role in the regulation of cell growth. Could also have a single-stranded nucleic acid-binding activity and could play a role in RNA and/or DNA metabolism. It may also have a role in the development of malignancy and the growth progression of some tumors.

**Cellular Location**
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03156, ECO:0000269|PubMed:14766016}. Nucleus {ECO:0000255|HAMAP-Rule:MF_03156, ECO:0000269|PubMed:14766016}

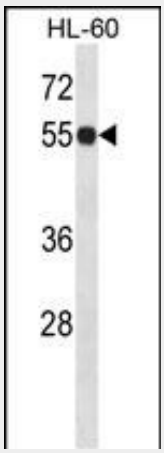
**Tissue Location**
IMP type I is the main species in normal leukocytes and type II predominates over type I in the tumor

## IMPDH1 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## IMPDH1 Antibody (N-term) - Images




IMPDH1 Antibody (N-term) (Cat. #AP14691a) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the IMPDH1 antibody detected the IMPDH1 protein (arrow).

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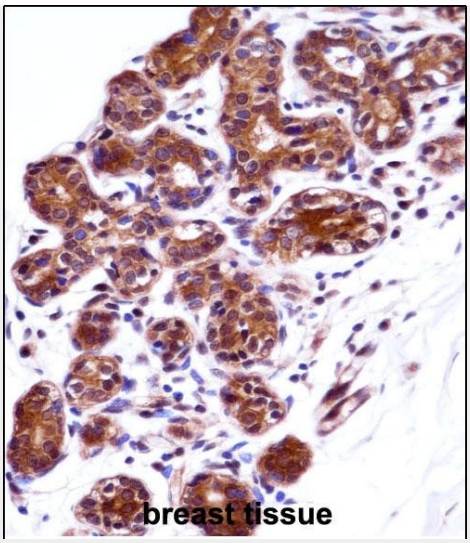


IMPDH1 Antibody (N-term) (AP14691a)immunohistochemistry analysis in formalin fixed and paraffin embedded human breast tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of IMPDH1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

**IMPDH1 Antibody (N-term) - Background**

The protein encoded by this gene acts as a homotetramer to regulate cell growth. The encoded protein is an enzyme that catalyzes the synthesis of xanthine monophosphate (XMP) from inosine-5'-monophosphate (IMP). This is the rate-limiting step in the de novo synthesis of guanine nucleotides. Defects in this gene are a cause of retinitis pigmentosa type 10 (RP10). Several transcript variants encoding different isoforms have been found for this gene.

**IMPDH1 Antibody (N-term) - References**

Ohmann, E.L., et al. Pediatr Transplant 14(7):891-895(2010)
Gensburger, O., et al. Pharmacogenet. Genomics 20(9):537-543(2010)
Kagaya, H., et al. Basic Clin. Pharmacol. Toxicol. 107(2):631-636(2010)
Ohmann, E.L., et al. J. Heart Lung Transplant. 29(5):509-516(2010)
Shumei, L., et al. Adv. Exp. Med. Biol. 664, 293-297 (2010) :