

ARG40346 anti-IMPDH1 antibody

Package: 100 µl
Store at: -20°C

Summary

| | |
|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes IMPDH1 |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | ICC/IF, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | IMPDH1 |
| Species | Human |
| Immunogen | Recombinant fusion protein corresponding to aa. 434-563 of Human IMPDH1 (NP_899066.1). |
| Conjugation | Un-conjugated |
| Alternate Names | IMPD1; EC 1.1.1.205; IMP dehydrogenase 1; IMPDH-I; IMPDH 1; LCA11; IMPD 1; IMPD; sWSS2608; Inosine-5'-monophosphate dehydrogenase 1; RP10 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|-----------------|
| | ICC/IF | 1:50 - 1:200 |
| | WB | 1:1000 - 1:2000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | Mouse lung and HL-60 | |
| Observed Size | 57 kDa | |

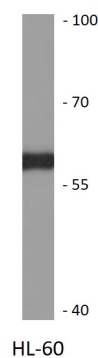
Properties

| | |
|---------------------|---|
| Form | Liquid |
| Purification | Affinity purified. |
| Buffer | PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 50% Glycerol |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

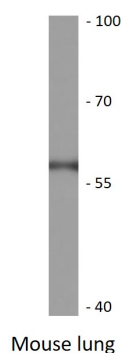
| | |
|-----------------------|--|
| Gene Symbol | IMPDH1 |
| Gene Full Name | IMP (inosine 5'-monophosphate) dehydrogenase 1 |
| Background | The protein encoded by this gene acts as a homotetramer to regulate cell growth. The encoded protein is an enzyme that catalyzes the synthesis of xanthine monophosphate (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. [provided by RefSeq, Dec 2008] |
| 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. [UniProt] |
| Calculated Mw | 55 kDa |
| Cellular Localization | Cytoplasm. Nucleus. [UniProt] |

Images



ARG40346 anti-IMPDH1 antibody WB image

Western blot: 25 µg of HL-60 cell lysate stained with ARG40346 anti-IMPDH1 antibody at 1:1000 dilution.



ARG40346 anti-IMPDH1 antibody WB image

Western blot: 25 µg of Mouse lung lysate stained with ARG40346 anti-IMPDH1 antibody at 1:1000 dilution.