# ARG58003
# anti-HINT1 antibody

Package: 100 µl
Store at: -20°C

## Summary

| | |
|---|---|
| Product Description | Mouse Monoclonal antibody recognizes HINT1 |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | FACS, IHC-P, WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | 1500CT836.13.93 |
| Isotype | IgG1, kappa |
| Target Name | HINT1 |
| Species | Human |
| Immunogen | Recombinant protein of Human HINT1. |
| Conjugation | Un-conjugated |
| Alternate Names | Adenosine 5'-monophosphoramidase; Protein kinase C inhibitor 1; PKCI-1; Protein kinase C-interacting protein 1; HINT; NMAN; EC 3.-.-.-; Histidine triad nucleotide-binding protein 1; PRKCNH1 |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| FACS | 1:25 |
| IHC-P | 1:25 |
| WB | 1:4000 |

Application Note: IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

| | |
|---|---|
| Positive Control | Jurkat |
| Observed Size | ~ 15 kDa |

## Properties

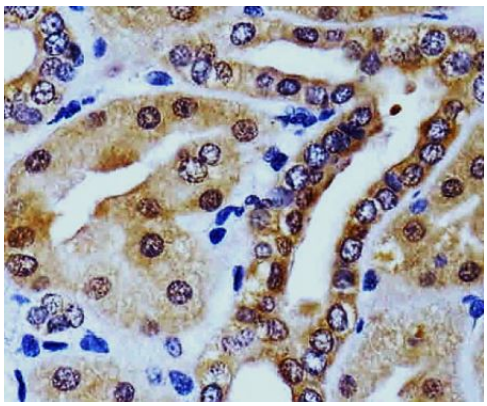
| | |
|---|---|
| Form | Liquid |
| Purification | Purification with Protein G. |
| Buffer | PBS and 0.09% (W/V) Sodium azide. |
| Preservative | 0.09% (W/V) Sodium azide. |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. 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

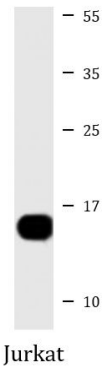
| | |
|---|---|
| Gene Symbol | HINT1 |
| Gene Full Name | histidine triad nucleotide binding protein 1 |
| Background | The protein encoded by this gene can hydrolyze substrates such as AMP-morpholidate, AMP-N-alanine methyl ester, AMP-alpha-acetyl lysine methyl ester, and AMP-NH2. The encoded protein interacts with these substrates via a histidine triad motif, which is part of the loop that binds to the substrate. This gene has been found to be a tumor suppressing gene. Several transcript variants, but only one of them protein-coding, have been found for this gene. [provided by RefSeq, Dec 2012] |
| Function | Hydrolyzes purine nucleotide phosphoramidates with a single phosphate group, including adenosine 5'monophosphoramidate (AMP-NH2), adenosine 5'monophosphomorpholidate (AMP-morpholidate) and guanosine 5'monophosphomorpholidate (GMP-morpholidate). Hydrolyzes lysyl-AMP (AMP-N-epsilon-(N-alpha-acetyl lysine methyl ester)) generated by lysine tRNA ligase, as well as Met-AMP, His-AMP and Asp-AMP, lysyl-GMP (GMP-N-epsilon-(N-alpha-acetyl lysine methyl ester)) and AMP-N-alanine methyl ester. Can also convert adenosine 5'-O-phosphorothioate and guanosine 5'-O-phosphorothioate to the corresponding nucleoside 5'-O-phosphates with concomitant release of hydrogen sulfide. In addition, functions as scaffolding protein that modulates transcriptional activation by the LEF1/TCF1-CTNNB1 complex and by the complex formed with MITF and CTNNB1. Modulates p53/TP53 levels and p53/TP53-mediated apoptosis. Modulates proteasomal degradation of target proteins by the SCF (SKP2-CUL1-F-box protein) E3 ubiquitin-protein ligase complex. [UniProt] |
| Calculated Mw | 14 kDa |

## Images



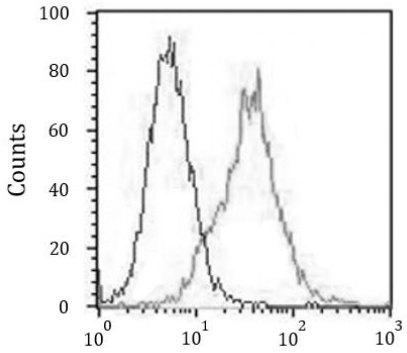
ARG58003 anti-HINT1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human kidney tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at RT. Samples were stained with ARG58003 anti-HINT1 antibody at 1:25 dilution for 60 min at 37°C. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0).




ARG58003 anti-HINT1 antibody WB image

Western blot: 20 µg of Jurkat cell lysate stained with ARG58003 anti-HINT1 antibody at 1:4000 dilution.




ARG58003 anti-HINT1 antibody FACS image

Flow Cytometry: Jurkat cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. Cells were then incubated in 2% BSA to block non-specific protein-protein interactions and stained with ARG58003 anti-HINT1 antibody (right histogram) at 1:25 dilution for 60 min at 37°C, followed by DyLight® 488 labelled secondary antibody. Isotype control antibody (left histogram) was Mouse IgG1 (1 µg/10^6 cells) used under the same conditions.