

ARG58003 anti-HINT1 antibody [1500CT836.13.93]

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; NMN; 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.

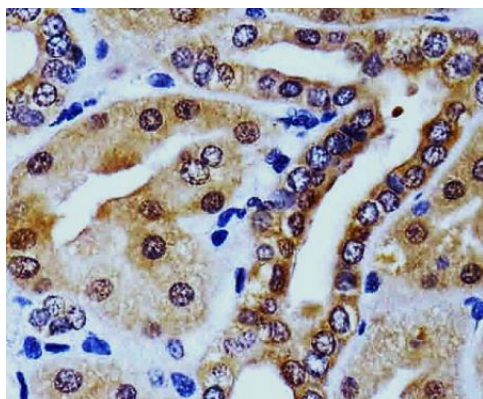
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

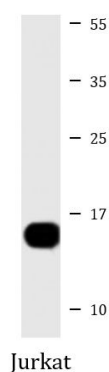
Gene Symbol	HINT1
Gene Full Name	histidine triad nucleotide binding protein 1
Background	The protein encoded by this gene can hydrolyze substrates such as AMP-morpholidate, AMP-N-alanine methyl ester, AMP-alpha-acetyl lysine methyl ester, and AMP-NH ₂ . The encoded protein interacts with these substrates 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-NH ₂), 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



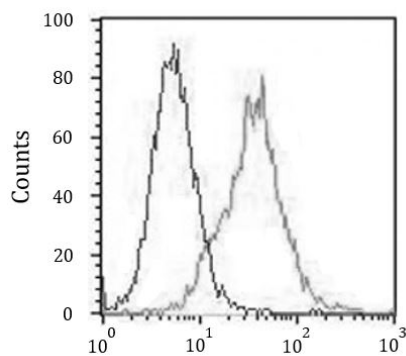
ARG58003 anti-HINT1 antibody IHC-P image

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/10⁶ cells) used under the same conditions.