

ARG58031 anti-HINT1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes HINT1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	HINT1
Species	Human
Immunogen	Synthetic peptide from Human HINT1. (HISQISVAEDDDESLGHLMIIVGKKCAADLGLNK)
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 - 3 µg/10 ⁶ cells
	ICC/IF	2 - 4 µg/ml
	IHC-P	0.5 - 2 µg/ml
	WB	0.1 - 0.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Citrate buffer (pH 6.0) for 20 min, followed by cooling at RT. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 14 kDa	

Properties

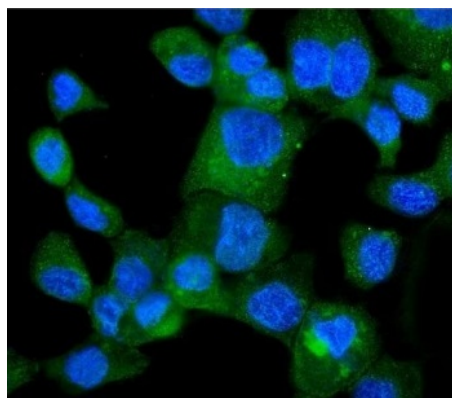
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.025% Sodium azide and 2.5% BSA.
Preservative	0.025% Sodium azide
Stabilizer	2.5% BSA
Concentration	0.5 mg/ml

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

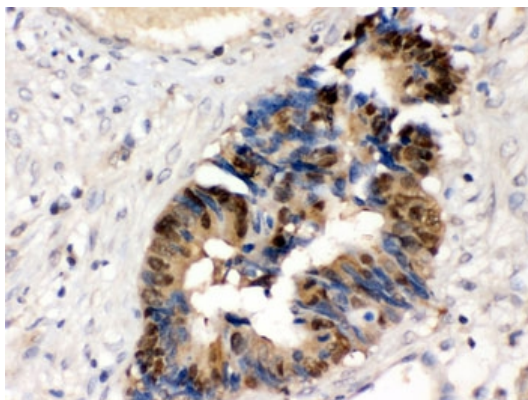
Gene Symbol	HINT1
Gene Full Name	histidine triad nucleotide binding protein 1
Background	The protein encoded by this gene can hydrolyze substrates such as AMP-morpholidate, AMP-N-alanine methyl ester, AMP-alpha-acetyl lysine methyl ester, and AMP-NH ₂ . The encoded protein interacts with these substrates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



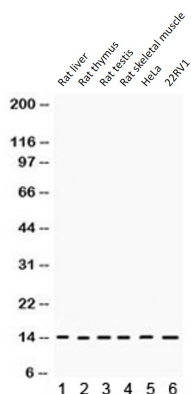
ARG58031 anti-HINT1 antibody ICC/IF image

Immunofluorescence: A431 cells stained with ARG58031 anti-HINT1 antibody (green). DAPI (blue) for nuclear staining.



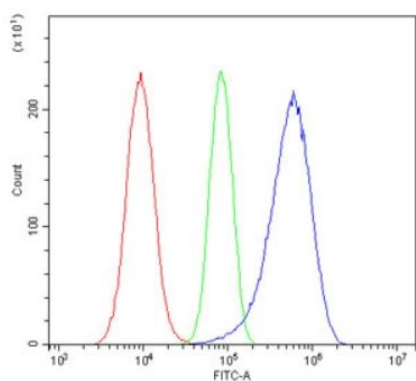
ARG58031 anti-HINT1 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human intestinal cancer tissue stained with ARG58031 anti-HINT1 antibody. Antigen Retrieval: Boil tissue section in 10mM Citrate buffer (pH 6.0) for 20 min followed by cooling at RT.



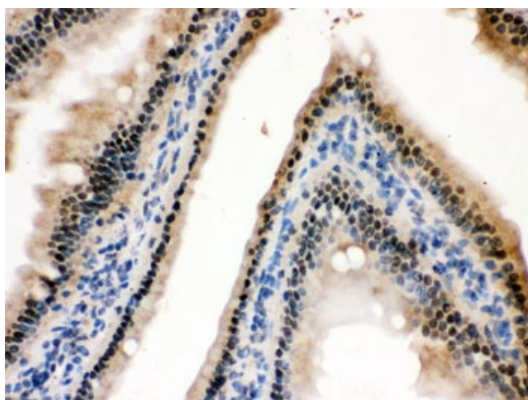
ARG58031 anti-HINT1 antibody WB image

Western blot: 1) Rat liver, 2) Rat thymus, 3) Rat testis, 4) Rat skeletal muscle, 5) HeLa, 6) 22RV1 lysates stained with ARG58031 anti-HINT1 antibody.



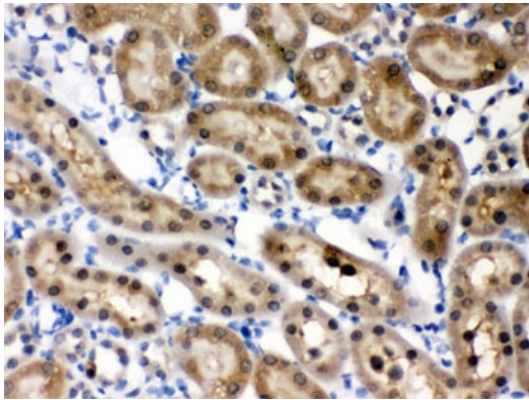
ARG58031 anti-HINT1 antibody FACS image

Flow Cytometry: A549 cells were blocked with goat sera and stained with ARG58031 anti-HINT1 antibody at $1 \mu\text{g}/10^6$ cells (blue); Cells alone (red); Isotype control (green).



ARG58031 anti-HINT1 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Mouse intestine stained with ARG58031 anti-HINT1 antibody. Antigen Retrieval: Boil tissue section in 10mM Citrate buffer (pH 6.0) for 20 min followed by cooling at RT.



ARG58031 anti-HINT1 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Rat kidney stained with ARG58031 anti-HINT1 antibody. Antigen Retrieval: Boil tissue section in 10mM Citrate buffer (pH 6.0) for 20 min followed by cooling at RT.