

HINT1 Antibody
Rabbit mAb
Catalog # AP92883

Specification

HINT1 Antibody - Product Information

Application	WB, IHC, ICC
Primary Accession	P49773
Reactivity	Rat
Clonality	Monoclonal

Other Names

HINT1; PKCI1; PRKCNH1; Protein kinase C inhibitor 1;

Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	13802 Da

HINT1 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human HINT1
Description	Hydrolyzes adenosine 5'-monophosphoramidate substrates such as AMP-morpholidate, AMP-N-alanine methyl ester, AMP-alpha-acetyl lysine methyl ester and AMP-NH2.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

HINT1 Antibody - Protein Information

Name HINT1

Synonyms HINT, PKCI1, PRKCNH1

Function

Exhibits adenosine 5'-monophosphoramidase activity, hydrolyzing purine nucleotide phosphoramidates with a single phosphate group such as adenosine 5'monophosphoramidate (AMP-NH2) to yield AMP and NH2 (PubMed: [15703176](http://www.uniprot.org/citations/15703176) target="_blank">15703176, PubMed: [16835243](http://www.uniprot.org/citations/16835243) target="_blank">16835243, PubMed: [17217311](http://www.uniprot.org/citations/17217311) target="_blank">17217311, PubMed: [17337452](http://www.uniprot.org/citations/17337452) target="_blank">17337452, PubMed: [22329685](http://www.uniprot.org/citations/22329685) target="_blank">22329685, PubMed: [23614568](http://www.uniprot.org/citations/23614568) target="_blank">23614568, PubMed: [28691797](http://www.uniprot.org/citations/28691797) target="_blank">28691797)

target="_blank">28691797, PubMed:29787766, PubMed:31990367). Hydrolyzes adenosine 5'monophosphomorpholidate (AMP-morpholidate) and guanosine 5'monophosphomorpholidate (GMP-morpholidate) (PubMed:15703176, PubMed:16835243). 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 (PubMed:15703176, PubMed:17337452, PubMed:22329685). Hydrolyzes 3-indolepropionic acyl- adenylate, tryptamine adenosine phosphoramidate monoester and other fluorogenic purine nucleoside tryptamine phosphoramidates in vitro (PubMed:17217311, PubMed:17337452, PubMed:23614568, PubMed:28691797, PubMed:29787766, PubMed:31990367). 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 (PubMed:30772266). 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 (PubMed:16014379, PubMed:22647378). Modulates p53/TP53 levels and p53/TP53-mediated apoptosis (PubMed:16835243). Modulates proteasomal degradation of target proteins by the SCF (SKP2-CUL1-F-box protein) E3 ubiquitin-protein ligase complex (PubMed:19112177). Also exhibits SUMO- specific isopeptidase activity, deconjugating SUMO1 from RGS17 (PubMed:31088288). Deconjugates SUMO1 from RANGAP1 (By similarity).

Cellular Location

Cytoplasm. Nucleus. Note=Interaction with CDK7 leads to a more nuclear localization.

Tissue Location

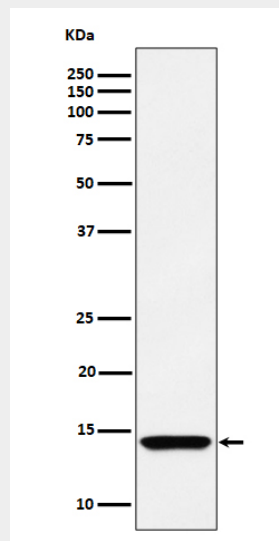
Widely expressed.

HINT1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HINT1 Antibody - Images



Western blot analysis of HINT1 expression in 293 cell lysate.