

**HINT1 Antibody**  
Rabbit mAb  
Catalog # AP92883

## Specification

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### HINT1 Antibody - Product Information

Application	WB, IHC, ICC
Primary Accession	<a href="#">P49773</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
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), PubMed: [16835243](http://www.uniprot.org/citations/16835243), PubMed: [17217311](http://www.uniprot.org/citations/17217311), PubMed: [17337452](http://www.uniprot.org/citations/17337452), PubMed: [22329685](http://www.uniprot.org/citations/22329685), PubMed: [23614568](http://www.uniprot.org/citations/23614568), PubMed: [28691797](http://www.uniprot.org/citations/28691797))

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

#### Cellular Location

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

#### Tissue Location

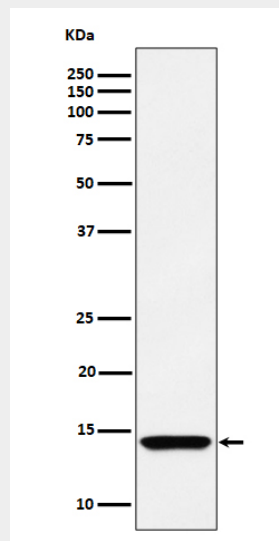
Widely expressed.

#### 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.