

**Hint1 Polyclonal Antibody**  
Catalog # AP70319**Specification**

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**Hint1 Polyclonal Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P49773</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>

**Hint1 Polyclonal Antibody - Additional Information****Gene ID** 3094**Other Names**

HINT1; HINT; PKCI1; PRKCNH1; Histidine triad nucleotide-binding protein 1; Adenosine 5'-monophosphoramidase; Protein kinase C inhibitor 1; Protein kinase C-interacting protein 1; PKCI-1

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**Hint1 Polyclonal 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-NH<sub>2</sub>) to yield AMP and NH<sub>2</sub> (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>, 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/22329685" target="\_blank">22329685</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>

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.

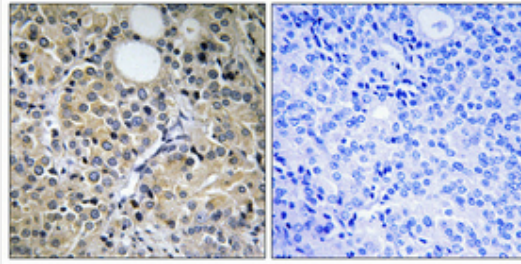
#### Hint1 Polyclonal Antibody - Protocols

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 Polyclonal Antibody - Images





### **Hint1 Polyclonal Antibody - Background**

Hydrolyzes purine nucleotide phosphoramidates with a single phosphate group, including adenosine 5'monophosphoramidate (AMP-NH<sub>2</sub>), 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.