

# HINT1 Rabbit mAb

Catalog # AP76529

## Product Information

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<b>Application</b>	WB, IHC-P
<b>Primary Accession</b>	<a href="#">P49773</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	13802

## Additional Information

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<b>Gene ID</b>	3094
<b>Other Names</b>	HINT1
<b>Dilution</b>	WB~~1:1000 IHC-P~~N/A
<b>Format</b>	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	HINT1
<b>Synonyms</b>	HINT, PKCI1, PRKCNH1
<b>Function</b>	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="#">15703176</a> , PubMed: <a href="#">16835243</a> , PubMed: <a href="#">17217311</a> , PubMed: <a href="#">17337452</a> , PubMed: <a href="#">22329685</a> , PubMed: <a href="#">23614568</a> , PubMed: <a href="#">28691797</a> , PubMed: <a href="#">29787766</a> , PubMed: <a href="#">31990367</a> ). Hydrolyzes adenosine 5'monophosphomorpholidate (AMP-morpholidate) and guanosine 5'monophosphomorpholidate (GMP-morpholidate) (PubMed: <a href="#">15703176</a> , PubMed: <a href="#">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="#">15703176</a> , PubMed: <a href="#">17337452</a> , PubMed: <a href="#">22329685</a> ). 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.

**Background**

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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>.

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