

**Anti-HINT1 Rabbit Monoclonal Antibody**  
Catalog # ABO16343**Specification****Anti-HINT1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC
Primary Accession	<a href="#">P49773</a>
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-HINT1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

**Anti-HINT1 Rabbit Monoclonal Antibody - Additional Information**

Gene ID 3094

**Other Names**

Adenosine 5'-monophosphoramidase HINT1, 3.9.1.-, Desumoylating isopeptidase HINT1, 3.4.22.-, Histidine triad nucleotide-binding protein 1, Protein kinase C inhibitor 1, Protein kinase C-interacting protein 1, PKCI-1, HINT1, HINT, PKCI1, PRKCNH1

**Calculated MW**

14 kDa KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human HINT1

**Purification**

Affinity-chromatography

**Storage**

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

**Anti-HINT1 Rabbit Monoclonal 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>). 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

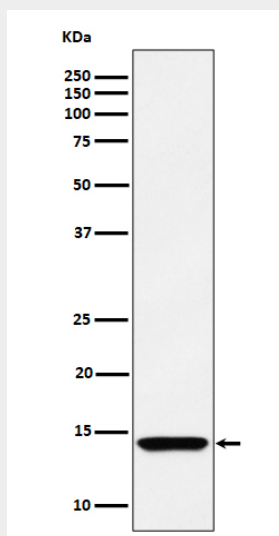
Widely expressed.

## Anti-HINT1 Rabbit Monoclonal 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](#)

#### Anti-HINT1 Rabbit Monoclonal Antibody - Images



Western blot analysis of HINT1 expression in 293 cell lysate.