

HINT1 Antibody

Rabbit mAb

Catalog # AP92883

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	P49773
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	HINT1; PKCI1; PRKCNH1; Protein kinase C inhibitor 1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	13802

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
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-NH ₂ .
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.

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 ₂) to yield AMP and NH ₂ (PubMed: 15703176 , PubMed: 16835243 , PubMed: 17217311 , PubMed: 17337452 , PubMed: 22329685 , PubMed: 23614568 , PubMed: 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).

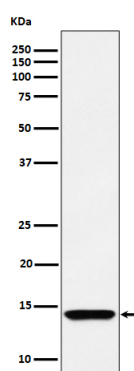
Cellular Location

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

Tissue Location

Widely expressed.

Images



Western blot analysis of HINT1 expression in 293 cell lysate.

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