

Anti-HINT1 Rabbit Monoclonal Antibody

Catalog # ABO16343

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	P49773
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.

Additional Information

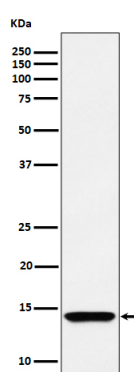
Gene ID	3094
Other Names	Adenosine 5'-monophosphoramidase HINT1, 3.9.1.-, Desumoylating isopeptidase HINT1, 3.4.22.-, Histidine triad nucleotide-binding protein 1, Protein kinase C inhibitor 1, Protein kinase C-interacting protein 1, PKCI-1, HINT1, HINT, PKCI1, PRKCNH1
Calculated MW	13802
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200
Source	Eukaryota
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.
Clone Names	Clone: 28H79
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.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.