

CLP1 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI15077

Specification

CLP1 antibody - N-terminal region - Product Information

Application	WB
Primary Accession	Q92989
Other Accession	NM_001142597 , NP_001136069
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41kDa KDa

CLP1 antibody - N-terminal region - Additional Information

Gene ID 10978

Alias Symbol HEAB, hClp1

Other Names

Polyribonucleotide 5'-hydroxyl-kinase Clp1 {ECO:0000255|HAMAP-Rule:MF_03035}, 2.7.1.78 {ECO:0000255|HAMAP-Rule:MF_03035}, Polyadenylation factor Clp1 {ECO:0000255|HAMAP-Rule:MF_03035}, Polynucleotide kinase Clp1 {ECO:0000255|HAMAP-Rule:MF_03035}, Pre-mRNA cleavage complex II protein Clp1 {ECO:0000255|HAMAP-Rule:MF_03035}, CLP1 {ECO:0000255|HAMAP-Rule:MF_03035}, HEAB

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-CLP1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

CLP1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

CLP1 antibody - N-terminal region - Protein Information

Name CLP1 {ECO:0000255|HAMAP-Rule:MF_03035}

Synonyms HEAB

Function

Polynucleotide kinase that can phosphorylate the 5'-hydroxyl groups of double-stranded RNA

(dsRNA), single-stranded RNA (ssRNA), double-stranded DNA (dsDNA) and double-stranded DNA:RNA hybrids. dsRNA is phosphorylated more efficiently than dsDNA, and the RNA component of a DNA:RNA hybrid is phosphorylated more efficiently than the DNA component. Plays a key role in both tRNA splicing and mRNA 3'-end formation. Component of the tRNA splicing endonuclease complex: phosphorylates the 5'-terminus of the tRNA 3'-exon during tRNA splicing; this phosphorylation event is a prerequisite for the subsequent ligation of the two exon halves and the production of a mature tRNA (PubMed:24766809, PubMed:24766810). Its role in tRNA splicing and maturation is required for cerebellar development (PubMed:24766809, PubMed:24766810). Component of the pre-mRNA cleavage complex II (CF-II), which seems to be required for mRNA 3'-end formation. Also phosphorylates the 5'-terminus of exogenously introduced short interfering RNAs (siRNAs), which is a necessary prerequisite for their incorporation into the RNA-induced silencing complex (RISC). However, endogenous siRNAs and microRNAs (miRNAs) that are produced by the cleavage of dsRNA precursors by DICER1 already contain a 5'-phosphate group, so this protein may be dispensable for normal RNA-mediated gene silencing.

Cellular Location

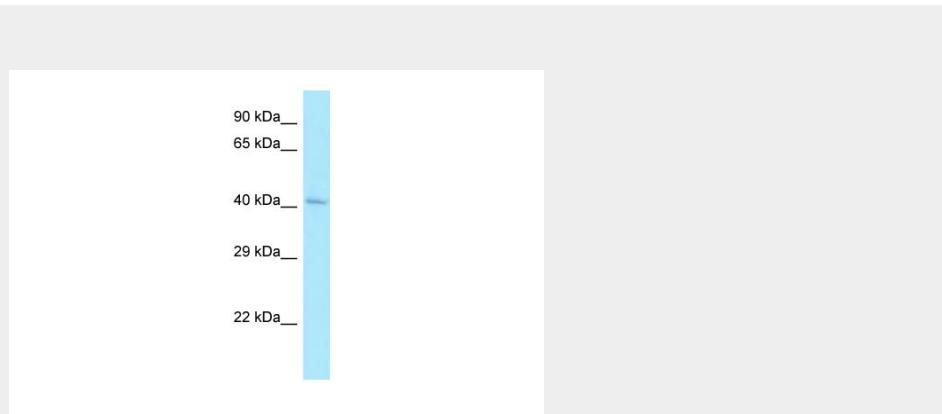
Nucleus {ECO:0000255|HAMAP-Rule:MF_03035, ECO:0000269|PubMed:11060040, ECO:0000269|PubMed:24766810}

CLP1 antibody - N-terminal region - 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](#)

CLP1 antibody - N-terminal region - Images



Host: Rabbit

Target Name: CLP1

Antibody Dilution: 1.0µg/ml

Sample Tissue: HepG2 cell lysate

CLP1 is supported by BioGPS gene expression data to be expressed in HepG2

CLP1 antibody - N-terminal region - References

Tanabe S.,et al.Blood 88:3535-3545(1996).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

de Vries H.,et al.EMBO J. 19:5895-5904(2000).

Paushkin S.V.,et al.Cell 117:311-321(2004).